

A LIST OF THE MESOZOIC AND CENOZOIC TYPES IN THE COLLECTIONS OF THE U. S. NATIONAL MUSEUM.

By JOHN BELKNAP MARCOU.

This list contains all the original types that I have been able to find in the collections of the National Museum. Many of the original labels have been lost or misplaced, and reidentification has frequently been necessary. This work has often been attended with some difficulty, owing to unsatisfactory descriptions and inaccurate figures. Many of the types which should be here have disappeared, sometimes altogether, but sometimes only one or more of the type specimens have been lost and the remainder found. All the specimens mentioned in this list have been carefully compared with the descriptions and figures referred to, they have been accurately and safely labeled, and can be seen at the National Museum. It is very probable that a few more of these type specimens may be found during the arrangement of the remainder of the collections, but only very few can be found in this way, as all the drawers have been searched especially for them. A small piece of green glazed paper has been pasted on every figured side of a specimen, and the Museum number, corresponding to a copy of the label in the Museum register, has been painted on every specimen; when the fossils are too small to admit of this, they have been inclosed in a glass tube and the number painted on it. The label contains the formation and locality, in addition to the information given in this list. I have not attempted to give the different horizons at which the fossils occur, as these are often very uncertain, except in a few instances in the Cretaceous, where they have been given according to Messrs. Meek, White, and Whitfield. I am under obligations to Dr. C. A. White, without whose knowledge of the collections it would have been impossible for me to identify many of the types recorded here.

LIST OF THE WORKS REFERRED TO.

- Bull. U. S. Geol. & Geogr. Surv. Terr. = Bulletin of the United States Geological and Geographical Survey of the Territories, F. V. Hayden, U. S. geologist in charge, Washington, D. C.
- Bull. U. S. Geol. Surv. = Bulletin of the United States Geological Survey, Washington, D. C.
- 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr. = Eleventh Annual Report of the United States Geological and Geographical Survey of the Territories, Washington, D. C.
- Geol. Surv. California, Geology, Vol. I = Geological Survey of California, Geology, Volume I, Report of Progress and Synopsis of the Field-Work from 1860 to 1864, by J. D. Whitney, State geologist, Philadelphia, Pa.
- Pal. Upper Missouri, < Smithsonian Cont. to Know. 172 = Palæontology of the Upper Missouri, Smithsonian Contributions to Knowledge No. 172, Washington, D. C.
- Proc. Acad. Nat. Sci. Philad. = Proceedings of the Academy of Natural Sciences of Philadelphia, Philadelphia, Pa.

- Proc. U. S. Nat. Mus. = Proceedings of the United States National Museum, Washington, D. C.
- Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean = Reports of Explorations and Surveys to Ascertain the Most Practicable and Economical Route for a Railroad from the Mississippi River to the Pacific Ocean, Washington, D. C.
- Rep. Expl. Great Basin of Utah, J. H. Simpson = Report of Explorations across the Great Basin of the Territory of Utah for a Direct Wagon-Route from Camp Floyd to Genoa, in Carson Valley, in 1859, by Capt. J. H. Simpson, Washington, D. C.
- Rep. Geogr. & Geol. Expl. & Surv. West 100th Meridian = Report upon Geographical and Geological Explorations and Surveys West of the One Hundredth Meridian, in charge of First Lieut. George M. Wheeler, Washington, D. C.
- Rep. Geol. Black Hills of Dakota = Report on the Geology and Resources of the Black Hills of Dakota, J. W. Powell in charge, Washington, D. C.
- Rep. Geol. Eastern Uinta Mts., J. W. Powell = Report on the Geology of the Eastern Portion of the Uinta Mountains and a Region of Country Adjacent Thereto, by J. W. Powell, Washington, D. C.
- Rep. Geol. Expl. 40th Parallel = Report of the Geological Exploration of the Fortieth Parallel, by Clarence King, U. S. geologist, Washington, D. C.
- Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, Vol. IX = Report of the United States Geological Survey of the Territories, F. V. Hayden, U. S. geologist in charge, 4to series, Washington, D. C.
- Rev. Foss. Ostreidæ N. A. = A Review of the Fossil Ostreidæ of North America, and a Comparison of the Fossil with the Living Forms, by Charles A. White, in Fourth Annual Report of the Director of the United States Geological Survey, Washington, D. C.
- Rev. Non-Marine Foss. Moll = A Review of the Non-Marine Fossil Mollusca of North America, by Charles A. White, in Third Annual Report of the Director of the U. S. Geological Survey, Washington, D. C.
- 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr. = Twelfth Annual Report of the United States Geological and Geographical Survey of the Territories, by F. V. Hayden, U. S. geologist, Washington, D. C.
- U. S. & Mex. Bound. Survey, Vol. I = United States and Mexican Boundary Survey, Report of William H. Emory, Washington, D. C.

TRIASSIC SPECIES.

Acrochordiceras hyatti Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 124, pl. xi, figs. 5, *a*. Mus. No. 12514.

Arcestes — ? White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 117. Mus. No. 8194.

Arcestes ? cirratus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 116. Mus. No. 8192.

Arcestes gabbi Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 121, pl. x, figs. 6, *a*. Mus. No. 12523.

Arcestes ? perplanus Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 120, pl. xi, figs. 7, *a*. Mus. No. 12531.

Aviculopecten ? altus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 110, pl. xxxii, fig. 3*a*. Mus. No. 8189.

Aviculopecten ? idahoensis (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 110, pl. xxxii, fig. 2*a*. Mus. No. 8187.

TRIASSIC SPECIES—Continued.

- Aviculopecten ? pealei** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 109, pl. xxxii, fig. 4a. Mus. No. 8188.
- Clydonites lævidorsatus** (Hauer sp.) Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 109, pl. x, fig. 7, a. Mus. No. 12522.
- Discina sp. und.** Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 99, pl. x, figs. 3, a. Mus. No. 13387.
- Eutomoceras laubei** Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 126, pl. x, figs. 8, a. Mus. No. 12528.
- Gymnoceras blakei** (Gabb sp.) Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 113, pl. x, figs. 10, a, b; pl. xi, figs. 6, a. Mus. No. 12512.
- Gymnoceras rotelliforme** Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 111, pl. x, figs. 9, a. Mus. No. 12526.
- Halobia (Daonella) lommeli** (Wissman) Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 100. (Marked as types by Meek, but are not the figured specimens.) Mus. No. 12518.
- Meekoceras aplanatum** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 112, pl. xxxi, figs. 1a-d. Mus. No. 8185.
- Meekoceras gracilitatis** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 115, pl. xxxi, figs. 2a-d. Mus. No. 8182.
- Meekoceras mushbachianum** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 114, pl. xxxii, figs. 1a-d. Mus. No. 8186.
- Modiomorpha ? lata** Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 103, pl. x, fig. 2. Mus. No. 12519.
- Modiomorpha ? ovata** Meek ?
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 103, pl. x, figs. 1, a. Mus. No. 1253.
- Orthoceras blakei** (Gabb ?) Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 104, pl. x, fig. 11. Mus. No. 12516.
- Sphæra whitneyi** Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 102, pl. x, figs. 4, a, b. Mus. No. 12511. Fig. 4c. Mus. No. 12524.
- Spirifera (Spiriferina ?) alia** H. & Whitf.
Rep. Geol. Expl. 40th Parallel, vol. iv, part ii, p. 231, pl. vi, fig. 17. Mus. No. 12671.
- Terebratula angusta** (H. & Whitf.) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 109. Mus. No. 8191.
- Terebratula humboltensis** (Gabb) H. & Whitf.
Rep. Geol. Expl. 40th Parallel, vol. iv, part ii, p. 232, pl. vi, figs. 22-24. Mus. No. 12533.
- Terebratula semisimplex** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 108, pl. xxxi, figs. 3a-c. Mus. No. 8190.
- Trachyceras judicarium** (Mojsisovics) Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 118, pl. xi, figs. 1, a. Mus. No. 12529.
- Trachyceras whitneyi** (Gabb sp.) Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, p. 116, pl. xi, figs. 3, a. Mus. No. 12527.

JURASSIC SPECIES.

Ammonites cordiformis Meek.

Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 122, pl. v, figs. 2*a-c*.
Mus. No. 203.

Ammonites cordiformis (M. & H.) Whitf.

Rep. Geol. Black Hills of Dakota, p. 378, pl. vi, figs. 22, 23. Mus. No. 12345. Figs.
20, 21. Mus. No. 12294.

Ammonites cordiformis var. *distans* Whitf.

Rep. Geol. Black Hills of Dakota, p. 380, pl. vi, fig. 25. Mus. No. 12308.

Ammonites henryi Meek.

Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 123, pl. iv, figs. 9*a-c*.
Mus. No. 314.

Ammonites pickeringi Dana.

U. S. Expl. Exp., vol. x, geology, p. 721, pl. xv, fig. 5. Mus. No. 3582.

Amussium aurarium Meek.

Geol. Surv. California, geology, vol. i, p. 478, pl. i, figs. 6, *a*. Mus. No. 7831.

Astarte? inornata (M. & H.) Meek.

Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 9, 4pl. iii, figs. 12*a, b*.
Mus. No. 202.

Astarte packardi White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 149, pl. 37, figs. 6*a, b*. Mus.
No. 8361. (Casts original in collection of Professor Packard.)

Asterias? dubium Whitfield.

Rep. Geol. Black Hills of Dakota, p. 344, pl. iii, fig. 3. Mus. No. 12325.

Aucella concentrica Fischer var. White.

Juras. Neocomian. Bull. U. S. Geol. Surv., No. 4, p. 101, pl. vi, figs. 2-12. Mus.
No. 12360.

Aucella erringtoni (Gabb sp.) Meek.

Geol. Surv. California, geology, vol. i, p. 479, pl. i, figs. 2*a*, [5, *e*]. Mus. No.
7831.

Avicula (Oxytoma) mucronata (M. & H.) Whitf.

Rep. Geol. Black Hills of Dakota, p. 357, pl. iv, figs. 1, 2. Mus. No. 12342.

Aviculopecten? superstrictus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 144, pl. xxxvii, figs. 4*a, b*. Mus.
No. 8173.

Aviculopecten (Eumicrotis) augustensis H. & Whitf.

Geol. Expl. 40th Parallel, vol. iv, part ii, p. 288, pl. vii, fig. 15. Mus. No. 12547.

Aviculopecten? Eumicrotis augustensis H. & Whitf.

Geol. Expl. 40th Parallel, vol. iv, part ii, p. 288 [pl. vii, fig. 14]. Mus. No. 12513.

Belemnites densus (M. & H.) Meek.

Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 126, pl. iv, fig. 10*c*;
pl. v, figs. 1*b-d, f-i*. Mus. No. 195.

Belemnites densus (M. & H.) Whitf.

Rep. Geol. Black Hills of Dakota, p. 381, pl. vi, figs. 15-19. Mus. No. 12293.

Belemnites macritatis White.

Juras. Neocomian. Bull. U. S. Geol. Surv., vol. i, No. 4, p. 102, pl. vi, figs. 13, 14.
Mus. No. 12361.

Belemnites nevadensis Meek.

Geol. Expl. 40th Parallel, vol. iv, part i, p. 138, pl. xii, figs. 7, *a, b*. Mus. No. 12515.
[Figs. 8, *a, b*.] Mus. No. 12517.

JURASSIC SPECIES—Continued.

- Camptonectes bellistriatus** (Meek) Whitfield.
Rep. Geol. Black Hills of Dakota, p. 351, pl. iv, fig. 7. Mus. No. 12339.
- Camptonectes extenuatus** (M. & H.) Meek.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 78, pl. iii, fig. 6. Mus. No. 221.
- Camptonectes extenuatus** (M. & H.) H. & Whitf.
Geol. Expl. 40th Parallel, vol. iv, part ii, p. 290, pl. vii, fig. 18. Mus. No. 12552.
- Camptonectes extenuatus** (M. & H.) Whitf.
Rep. Geol. Black Hills of Dakota, p. 353, pl. iv, fig. 4. Mus. No. 12335.
- Camptonectes pertenuistriatus** H. & Whitf.
Rep. Geol. Expl. 40th Parallel, vol. iv, part ii, p. 291, pl. vii, fig. 17. Mus. No. 12535.
- Camptonectes platessiformis** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 143, pl. xxxvii, fig. 5a. Mus. No. 8179.
- Camptonectes stygius** White.
Rep. Geogr. & Geol. Expl. & Surv. west 100th Meridian, vol. iv, p. 164, pl. xiii, figs. 2a-c. Mus. No. 8580.
- Cardinia præcisa** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 149, pl. xxxvii, figs. 7a, b. Mus. No. 8174.
- Dentalium subquadratum** M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 111, fig. on p. 111. Mus. No. 677.
- Dosinia jurassica** Whitfield.
Rep. Geol. Black Hills of Dakota, p. 373, pl. v, figs 21-24. Mus. No. 12282.
- Eumicrotis curta** (Hall sp.) M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 81, pl. iii, figs. 10a-d. Mus. No. 205.
- Gervillia montanaensis** (Meek) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 145, pl. xxxvii, figs. 1a, b. Mus. No. 7795.
- Gervillia recta** (Meek) Whitf.
Rep. Geol. Black Hills of Dakota, p. 358, pl. iv, fig. 3. Mus. No. 12319.
- Goniomya montanaensis** (Meek) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 151, pl. xxxvii, fig. 8a. Mus. No. 7814.
- Grammatodon inornatus** M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 90, pl. iii, figs. 9, a, b. Mus. No. 201.
- Gryphæa calceola** (Quenst.) var. *nebrascensis* M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 74, pl. iii, figs. 1a-f. Mus. No. 318.
- Gryphæa calceola** (Quenst.) var. *nebrascensis* (M. & H.) H. & Whitf.
Geol. Expl. 40th Parallel, vol. iv, part ii, p. 286, pl. vii, fig. 11. Mus. No. 12540.
- Inoceramus crassalatus** White.
Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, p. 166, pl. xiii, figs. 4a-c. Mus. No. 8585.
- Lima (Plagiostoma) occidentalis** H. & Whitf.
Geol. Expl. 40th Parallel, vol. iv, part ii, p. 292, pl. vii, fig. 23. Mus. No. 12539.
- Lingula brevirostris** M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 69, pl. iii, figs. 3a, b. Mus. No. 206.

JURASSIC SPECIES—Continued.

- Lingula brevirostris* (M. & H.) Whitf.
Rep. Geol. Black Hills of Dakota, p. 346, pl. iii, figs. 4, 5. Mus. No. 12310.
- Lioplacodes veternus* M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 116, fig. on p. 116. Rev. Non-Marine Foss. Moll., p. 64 or 470, pl. iii, fig. 9. Mus. No. 1973.
- Lyosoma powelli* White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 153, pl. xxxviii, figs. 6a-d. Mus. No. 8151.
- Myacites nebrascensis* M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 100, pl. iv, fig. 5. Mus. No. 210.
- Myacites subcompressus* (Meek) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 151, pl. xxxviii, figs. 5a-e. Mus. Nos. 8061, 8183.
- Myacites subellipticus* M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 101, pl. iv, figs. 6, a-c. Mus. No. 200.
- Myacites (Pleuromya) weberensis* Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, p. 137, pl. xii, figs. 11, a. Mus. No. 13386.
- Myophoria ambilineata* White.
Rep. Geogr. & Geol. Expl. & Surv. west 100th Meridian, vol. iv, p. 166, pl. xiii, figs. 5a, b. Mus. No. 8586.
- Mytilus whitei* Whitf.
Rep. Geol. Black Hills of Dakota, p. 360, pl. v, figs. 9-12. Mus. No. 12312.
- Mytilus whitei* (Whitf.) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 147, pl. xxxvii, fig. 9a. Mus. No. 8177.
- Natica* ? *Ielia* H. & Whitf.
Rep. Geol. Expl. 40th Parallel, vol. iv, part ii, p. 293, pl. vii, figs. 19-21. Mus. No. 12536.
- * *Neæra longirostra* Whitf.
Rep. Geol. Black Hills of Dakota, p. 376, pl. v, fig. 35. Mus. No. 12327.
- † *Neritella nebrascensis* M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 109, figs. on p. 109. Rev. Non-Marine Foss. Moll., p. 51 or 457, pl. iii. Mus. No. 1979.
- Neritina* ? *phaseolaris* White.
Rep. Geogr. & Geol. Expl. Surv. w. 100th Meridian, vol. iv, p. 167, pl. xiii, figs. 1a-d. Mus. No. 8587.
- Ostrea engelmanni* (Meek) M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 73, fig. A or p. 73. Rev. Foss. Ostreidae N. A., p. 289, pl. xxxiv, figs. 4 & 5. Mus. No. 1884.
- Ostrea engelmanni* ? (M. & H.) H. & Whitf.
Rep. Geol. Surv. 40th Parallel, vol. iv, part ii, p. 285, pl. vii, fig. 12. Mus. No. 12534.
- Ostrea strigilecula* White.
Rep. Geogr. & Geol. Expl. & Surv. w. 100th Meridian, vol. iv, p. 163, pl. xiii, fig. 3d. Rev. Foss. Ostreidae N. A., p. 289, pl. xxxv, fig. 11. Mus. No. 8581.
- Ostrea strigilecula* (White) Whitf.
Rep. Geol. Black Hills of Dakota, p. 348, pl. iii, figs. 8-10, 12. Mus. No. 12318. Fig. 11. Mus. No. 12271.

* I cannot recognize the type, but it is marked as such by the author of the species.

† Dr. White, in the Non-Marine Foss. Mollusca, refers this species to *Neritina*.

JURASSIC SPECIES—Continued.

Pentacrinites astericus ? M. & H.

Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 67, fig. on p. 67. Mus. No. 682.

Pentacrinus astericus (M. & H.) White.

Rep. Geogr. & Geol. Expl. & Surv. west 100th Meridian, vol. iv, p. 162, pl. xiii, figs. 6a, b. Mus. No. 8588.

Pholadomya humilis (Meek) M. & H.

Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 81, pl. iv, figs. 3a, b. Mus. No. 217.

Pholadomya kingii (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 150, pl. xxxviii, figs. 3a, b. Mus. No. 7815.

Planorbis veteris M. & H.

Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 107, pl. iv, figs. 1a, b. Rev. Non-Marine Foss. Moll., p. 40 or 446, pl. iii, fig. 6. Mus. No. 317.

Pleuromya newtoni Whitf.

Rep. Geol. Black Hills of Dakota, p. 367, pl. v, figs. 19, 20. Mus. No. 12336.

Psammobia ? **prematura** Whitf.

Rep. Geol. Black Hills of Dakota, p. 374, pl. v, fig. 31. Mus. No. 12328.

Pseudomonotis (Eumicrotis) curta (Hall sp.) Whitf.

Rep. Geol. Black Hills of Dakota, p. 354, pl. iii, figs. 24, 25. Mus. No. 12322.

Pseudomonotis (Eumicrotis) orbiculata Whitf.

Rep. Geol. Black Hills of Dakota, p. 356, pl. iii, figs. 17-19. Mus. No. 12269.

Rhynchonella — M. & H.

Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 71, pl. iii, fig. 4. Mus. No. 319.

Rhynchonella gnathophora ? (Meek) H. & W.

Rep. Geol. Expl. 40th Parallel, vol. iv, part ii, p. 284, pl. vii, fig. 6. Mus. No. 12550.

Rhynchonella myrina (H. & W.) Whitf.

Rep. Geol. Black Hills of Dakota, p. 347, pl. iii, fig. 7. Mus. No. 12306. Fig. 6. Mus. No. 12280.

Saxicava jurassica Whitf.

Rep. Geol. Black Hills of Dakota, p. 376, pl. v, figs. 25-30. Mus. No. 12300.

Septocardia carditoidea H. & Whitf.

Rep. Geol. Expl. 40th Parallel, vol. iv, part ii, p. 296, pl. vii, fig. 25. Mus. No. 12549.

Septocardia typica H. & Whitf.

Rep. Geol. Expl. 40th Parallel, vol. iv, part ii, p. 295, pl. vii, figs. 26, 27. Mus. No. 12538.

Serpula — M. & H.

Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 128, pl. v, fig. 4. Mus. No. 219.

Tancredia ? **æquilateralis** M. & H.

Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 96, [pl. iii, fig. 8]. Mus. No. 192.

Tancredia bulbosa Whitf.

Rep. Geol. Black Hills of Dakota, p. 370, pl. vi, figs. 1, 2. Mus. Nos. 12321, 12328.

Tancredia corbuliformis Whitf.

Rep. Geol. Black Hills of Dakota, p. 370, pl. vi, figs. 5-8. Mus. Nos. 12328, 12382.

Tancredia extensa White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 150, pl. xxxviii, fig. 4a. Mus. No. 8176.

JURASSIC SPECIES—Continued.

- Tancredia? inornata** (M. & H. sp.) Whitf.
Rep. Geol. Black Hills of Dakota, p. 368, pl. vi, fig. 13. Mus. No. 12338. Figs. 9-12. Mus. No. 12341.
- Tancredia postica** Whitf.
Rep. Geol. Black Hills of Dakota, p. 371, pl. vi, fig. 14. Mus. No. 12321.
- Tancredia warrenana** M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 96. Mus. No. 204.
- Tancredia warrenana** (M. & H.) Whitf.
Rep. Geol. Black Hills of Dakota, p. 372, pl. vi, fig. 4. Mus. No. 12326.
- Terebratula angusta** H. & Whitf.
Rep. Geol. Expl. 40th Parallel, vol. iv, part ii, p. 285, pl. vii, figs. 7-10. Mus. No. 12548.
- Thracea? sublævis** (M. & H.) Whitf.
Rep. Geol. Black Hills of Dakota, p. 375, pl. v, fig. 34 (by mistake marked 24 on the plate). Mus. No. 12327.
- Thracia? arcuata** M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 102, pl. iv, fig. 8. Mus. No. 211.
- Thracia? sublævis** M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 102, pl. iv, figs. 4, a. Mus. No. 197.
- Trapezium bellefourchensis** Whitf.
Rep. Geol. Black Hills of Dakota, p. 364, pl. v, figs. 1-4. Mus. No. 12303.
- Trapezium subequalis** Whitf.
Rep. Geol. Black Hills of Dakota, p. 365, pl. v, fig. 6. Mus. No. 12317. Figs. 5, 7, 8. Mus. No. 12329.
- Trigonia americana** (Meek) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 148, pl. xxxviii, figs. 1a, b. Mus. Nos. 7794, 7819.
- Trigonia conradi** M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 83, pl. iii, fig. 11. Mus. No. 212.
- Trigonia montanaensis** (Meek) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 147, pl. xxxviii, fig. 2a. Mus. No. 7817.
- Trigonia quadrangularis** H. & Whitf.
Rep. Geol. Expl. 40th Parallel, vol. iv, part ii, p. 293, pl. vii, fig. 22. Mus. No. 12537.
- Unio nucalis** M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 92, pl. iii, figs. 13a-c. Rev. Non-Marine Foss. Moll., p. 20 or 426, pl. iii, fig. 4. Mus. No. 196.
- Unio stewardi** White.
Non-Marine Foss. Moll., p. 20 or 426, pl. iii, fig. 1. Mus. No. 8849.
- Valvata? scabrada** M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 113, pl. iv, figs. 2a, b. Rev. Non-Marine Foss. Moll., p. 64 or 470, pl. iii, fig. 7. Mus. No. 316.
- Volsella formosa** M. & H.
Pal. Upper Missouri, <Smithsonian Cont. to Know. 172, p. 86, figs. A, B, on p. 87. Mus. No. 1882.
- Volsella scalprum** (Sow. sp.) var. *isonema* Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 132, pl. xii, fig. 4. Mus. No. 12545.

Volsella (Modiolina) platynota White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 146, pl. xxxvii, figs. 3*a*, *b*. Mus. No. 8175.

Volsella subimbricata (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 145, pl. xxxvii, figs. 2*a*-*c*. Mus. Nos. 8178, 7818.

CRETACEOUS SPECIES.

Acmæa occidentalis (H. & M. sp.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 295, pl. xviii, figs. 3*a*-*c*. Mus. No. 250.

Acmæa ? papillata (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 296, pl. xxxi, figs. 4*a*, *b*. Mus. No. 251.

Actæon attenuatus (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 281, pl. xix, figs. 17*a*, *b*. Mus. No. 285.

Actæon subellipticus (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 280, pl. xix, fig. 16. Mus. No. 283.

Actæon woosteri White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 304, pl. vii, figs. 9*a*-*c*. Mus. No. 8096.

Actæonina prosocheila White.

Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 305, pl. vii, figs. 10*a*, *b*. Mus. No. 8095.

Admete (Admetopsis) gregaria (Meek) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 198, pl. xviii, figs. 5*a*, *b*. Mus. No. 8651.

Admetopsis rhomboides (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 317, pl. ix, figs. 6*a*, *b*. Mus. No. 7893.

Admetopsis subfusiformis (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 318, pl. ix, fig. 7*a*. Mus. No. 7892.

Akera glansoryza Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 437, pl. xii, fig. 25. Mus. No. 12331.

Amauropsis paludinæformis (H. & M. sp.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 431, pl. xii, fig. 16. Mus. No. 12302.

Amauropsis paludinæformis (H. & M. sp.) Meek.

Cret. No. 4. Rep. U. S. Geol. Surv. Terr., 4to, vol. ix, p. 318, pl. xix, figs. 15*a*-*c*. Mus. No. 268.

Ammonites complexus (H. & M.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 447, pl. xxiv, figs. 1*a*-*c*. Mus. No. 381.

Ammonites complexus var. *suciaensis* Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 369, pl. v, figs. 2*a*-*c*. Mus. Nos. 1276, 12396.

Ammonites lævianus White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 201, pl. xix, figs. 1*a*, *b*. Mus. No. 8629.

CRETACEOUS SPECIES—Continued.

Ammonites leonensis Courad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 160, pl. xvi, figs. 2*a*, *b*. Mus. No. 9878.

Ammonites ?? mullananus (M. & H.) Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 607, pl. viii, figs. 1*a-c*. Mus. No. 1924.

Ammonites newberryanus Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 367, pl. iv, figs. 3, *a*, *b*. Mus. No. 12394.

Ammonites placenta De Kay var. **intercalaris** (M. & H.) White.

Rep. Geogr. & Geol. Surv. west 100th Meridian, vol. iv, part i, p. 202 (not figured). Mus. No. 8637.

Ammonites pleurisepta Courad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 159, pl. xv, figs. 1*a-c*. Mus. No. 9888.

*** Ammonites texanus** (Rømer) Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 159. Mus. No. 9893.

Anchura (Drepanocheilus) americana (E. & S. sp.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 325, pl. xxxii, figs. 8*a*, *b*. Mus. No. 274.

Anchura (Drepanocheilus) mudgeana White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 312, pl. vii, figs. 3*a*, *b*. Mus. No. 8086.

Anchura (Drepanocheilus) nebrascensis (E. & S. sp.) Whitf.

Rep. Geol. Black Hills of Dakota, p. 429, pl. xii, figs. 2, 3. Mus. No. 12309.

Anchura (Drepanocheilus) nebrascensis (E. & S. sp.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 326, pl. xix, figs. 5*a-c*. Mus. No. 288.

Anchura (Drepanocheilus) prolabiata White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 313, pl. vii, fig. 2*a*. Mus. No. 8069.

Anchura (Drepanocheilus) ruida White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 312, pl. vii, figs. 4*a*, *b*. Mus. No. 8078.

Anchura ? fusiformis (Meek) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 190, pl. xviii, fig. 4*a*. Mus. No. 8648.

Anchura ? fusiformis Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 160, [pl. xv, figs. 2, *a*]. Mus. No. 12429.

Anchura haydeni White.

Cret. No. 4. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 311, pl. vii, fig. 1*a*. Mus. No. 8054.

Anchura ? parva Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 328, pl. xix, figs. 4*a*, *b*. Mus. No. 284.

Anchura ? sublevis (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 327, pl. xix, figs. 3*a*, *b*. Mus. No. 276.

Anchura ? sublevis (M. & H.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 428, pl. xii, fig. 6. Mus. No. 12344.

* Not the figured specimen, but marked as a type by T. A. Conrad.

CRETACEOUS SPECIES—Continued.

Ancyloceras jenneyi Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 452, pl. xvi, figs. 7-9. Mus. No. 12295.

Ancyloceras tricostatus Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 454, pl. xv, figs. 7, 8. Mus. No. 12287.

Ancyloceras? uncum (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 409, pl. xxi, figs. 1a, b. Mus. No. 387.

Anisomyon alveolus (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 292, pl. xviii, figs. 4a, b. Mus. No. 247.

Anisomyon alveolus (M. & H.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 433, pl. xii, fig. 20. Mus. No. 12273.

Anisomyon borealis (Morton sp.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills, of Dakota, p. 436, pl. xii, fig. 23. Mus. No. 12254.

Anisomyon borealis (Morton sp.) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 193, pl. xviii, figs. 9a, b. Mus. No. 8649.

Anisomyon borealis (Morton sp.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 288, pl. xviii, figs. 9a-e. Mus. No. 248.

Anisomyon centrale (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 289, pl. xviii, figs. 7a-c. Mus. No. 245.

Anisomyon centrale (Meek) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 194, pl. xviii, figs. 8a, b. Mus. No. 8659.

Anisomyon centrale (Meek) White.

Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 303, pl. ix, figs. 1a-d. Mus. No. 12430.

Anisomyon patelliformis (M. & H.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 290, pl. xviii, figs. 5a-c [e], f. Mus. No. 246.

Anisomyon patelliformis (M. & H.) Whitf.

Cret. No. 2. Rep. Geol. Black Hills of Dakota, p. 435, pl. xii, figs. 17, 18. Mus. No. 12268.

Anisomyon sexsulcatus (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 293, pl. xviii, figs. 8a, b. Mus. No. 249.

Anisomyon subovatus (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 291, pl. xviii, figs. 5d, 6. Mus. No. 244.

Anisomyon subovatus (M. & H.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 434, pl. xii, fig. 19. Mus. No. 12298.

Anomia concentrica Meek.

Rep. Expl. Great Basin of Utah, J. H. Simpson, p. 359, pl. iv, fig. 3. Mus. No. 489.

Anomia? obliqua (M. & H.) Meek.

Cret. No. 3. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 22, pl. ix, fig. 2. Mus. No. 241.

Anomia propatoris White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 14, pl. xii, figs. 15a, b. Rev. Non-Marine Foss. Moll., p. 16 or 422, pl. v, figs. 6, 7. Mus. No. 7874.

CRETACEOUS SPECIES—Continued.

Anomia rætiformis Meek.

Cret. No. 5. Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 141, fig. 1 on p. 141.
Mus. No. 8047.

Anomia ? subtrigonalis (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 22, pl. xvi, figs. 4a,
b. Mus. No. 346.

Aporrhais biangulata (M. & H.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 322, pl. xix,
figs. 6a-c; fig. 37 on page 322. Mus. No. 275.

Aporrhais meeki Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 426, pl. xii, fig. 5. Mus. No. 12334.

Aptychus cheyennensis (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 438, pl. xxxv, figs.
3d, f-i. Mus. No. 386.

Arca ? equilateralis Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 357, pl. ii, figs. 6, a. Mus.
No. 12386.

Arca subelongata Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 148, pl. vi, figs. 3a, b. Mus. No. 9846.

Astarte evansi (H. & M. sp.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 413, pl. xi, fig. 13. Mus. No. 12343.

Astarte texana Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 152, pl. v, fig. 9. Mus. No. 9829.

Avicula (Pseudoptera) propleura (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 281, pl. x, figs. 2b-c. Mus. No.
7788.

Axinæa subimbricata (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 95, pl. xxviii, figs.
14b-d. Mus. No. 309.

Axinea wyomingensis Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 149, figs. 2, 3, on p. 150. Mus. No. 8045.

Baculites asper (Morton ?) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 404, pl. xxxix, figs.
10a-d. Mus. No. 178.

Baculites compressus (Say) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 400, pl. xx,
figs. 3a-c. Mus. No. 378.

Baculites grandis (H. & M.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 398, pl. xxxiii,
figs. 1a-c. Mus. No. 380.

Baculites occidentalis Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 366, pl. iv, figs. 1, a, b.
Mus. No. 1363.

Baculites ovatus (Say) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 394, pl. xx,
figs. 3a-c. Mus. No. 374.

Baculites ovatus (Say) White.

Rep. U. S. Geol. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 199, pl.
xix, figs. 5a-c, 4a-c. Mus. Nos. 8630, 8631.

Barbatia barbatula White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 19, pl. xi, fig. 5a. Mus. No.
8071.

CRETACEOUS SPECIES—Continued.

- Barbatia coalvillensis** White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 286, pl. vi, figs. 2*a*, *b*. Mus. No. 8067.
- Baroda subelliptica** White.
Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 294, pl. x, figs. 4*a-d*. Mus. No. 8048 *bis*.
- Baroda wyomingensis** (Meek) White.
Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 293, pl. x, figs. 3*a*, *b*. Mus. No. 1939.
- Beaumontia ? solitaria** White.
Cret. No. 5. 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 8, pl. xii, fig. 13*c*. Mus. No. 8079.
- Belemnitella bulbosa** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 504, pl. xxxiii, figs. 2*c-e*. Mus. No. 412.
- Buccinopsis parryi** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 158, pl. xiii, figs. 5*a*, *b*. Mus. No. 9881.
- Buchiceras swallovi** (Shumard sp.) White.
Rep. U. S. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 202, pl. xx, figs. 1*a-c*. Mus. No. 8628.
- Callista (Aphrodina ?) tennis** (H. & M.) Meek.
Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 188, pl. v, figs. 1*a-d*. Mus. No. 232.
- Callista (Dosiniopsis) deweyi** (M. & H.) Meek.
Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 182, pl. xvii, figs. 15*a-e*. Mus. No. 341.
- Callista (Dosiniopsis) nebrascensis** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 184, fig. 15 on p. 184. Mus. No. 1938.
- Callista (Dosiniopsis) orbiculata** (H. & M.) Meek.
Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 186, pl. v, figs. 2*a-c*. Mus. No. 231.
- Callista (Dosiniopsis) owenana** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 183, pl. xxxvii, fig. 1. Mus. No. 176.
- Callista ? pellucida** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 187, pl. xvii, figs. 10*a-e*. Mus. No. 418.
- Camptonectes platessa** White.
Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 176, pl. xvii, fig. 5*a*. Mus. No. 8643.
- Cantharus ? julesburgensis** White.
Cret. No. 5. Proc. U. S. Nat. Mus., vol. iv, p. 138, pl. —, figs. 1, 2. Mus. No. 12494.
- Cantharus (Cantharulus) vaughani** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 379, pl. xxxii, figs. 5*a*, *b*; fig. 48 on p. 379. Mus. No. 255.
- Caprina occidentalis** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 147, pl. ii, figs. 1*a-c*. Mus. No. 9840.

CRETACEOUS SPECIES—Continued.

- Caprina planata** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 147, pl. ii, figs. 2*a*, *b*. Mus. No. 9891.
- Capsa texana** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 164, pl. xxi, fig. 6. Mus. No. 12496.
- Cardita eminula** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 150, pl. vi, fig. 8. Mus. No. 9847.
- Cardita subtetrica** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 164, pl. xxi, fig. 5. Mus. No. 9828.
- Cardium congestum** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 149, pl. vi, figs. 5*a-d*. Mus. No. 9882.
- Cardium (Criocardium) speciosum** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 169, pl. xxxvii, figs. 4*a-c*. Mus. No. 190. (*Ethmocardium* White.)
- Cardium curtum** (M. & H.) Meek.
Geol. Expl. 40th Parallel, vol. iv, part i, p. 151, pl. xv, fig. 3. Mus. No. 7855.
- Cardium ? kansasense** Meek.
Cret. No. 1. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 170, pl. ii, figs. 1*a*, *b*. Mus. No. 7905.
- Cardium mediale** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 149, pl. iv, figs. 4*a*, *b*. Mus. No. 9860.
- Cardium (Protocardia) filosum** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 150, pl. vi, figs. 7*a*, *b*. Mus. No. 9868.
- Cardium (Protocardia) multistriatum** (Shumard) Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 149, pl. vi, figs. 4*a-c*. Mus. No. 9858.
- Cardium (Protocardia) texanum** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 150, pl. vi, figs. 6*a-c*. Mus. No. 9384.
- * **Cardium pauperculum** (Meek) White.
Cret. No. 2. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 291. Mus. No. 7832.
- Cardium subcurtum** Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 152, pl. xv, fig. 3*a*. Mus. No. 12448.
- Cardium trite** White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 291, pl. v, fig. 4*b*. Mus. No. 8060.
- Caryophyllia egeria** White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 275, pl. vi, figs. 7*a*, *b*. Mus. No. 8083.
- Caryophyllia johannis** White.
Cret. Nos. 4, 5? 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 274, pl. vi, figs. 6*a*, *b*. Mus. No. 8084.
- Cassiope whitfieldi** White.
Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 196, pl. xviii, fig. 1*a*. Mus. No. 8633.
- Cerithiopsis moreauensis** Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 335, pl. xxxi, fig. 4; p. 336, fig. 38. Mus. No. 293.
- Chætetes ?? dimissus** White.
Cret. No. 5. 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 7, pl. xii, fig. 14*a*. Mus. No. 8080.

* Not the figured specimen, but marked as a type by C. A. White.

CRETACEOUS SPECIES—Continued.

Chemnitzia cerithiformis Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 339, pl. xxxii, figs. 10*a*, *b*. Mus. No. 263.

Chlamys nebrascensis (M. & H.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 25, pl. xvi, figs. 6*a-c*. Mus. No. 358.

Closteriscus tenuilineatus (H. & M. sp.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 308, pl. xix, figs. 10*a*, *b*, 9*c*. Mus. No. 260.

Corbicula nucalis Meek.

Cret. No. 1. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 163, pl. ii, figs. 5*a-c*. Mus. No. 7898.

Corbula crassimarginata (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 244, pl. xvii, figs. 14*a-c*. Mus. No. 299.

Corbula nematophora (Meek) White.

Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 188, pl. xvii, figs. 7*a-c*. Mus. No. 8662.

Corbula nematophora (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 290, pl. iii, figs. 4*a-d*. Mus. Nos. 7830, 7891.

Corbulamella gregaria Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 247, pl. xvii, figs. 13*a-d*. Mus. No. 355.

Crassatella cimarronensis White.

Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 287, pl. v, figs. 3*a-c*. Mus. No. 8053.

Crassatella (Pachythærus) evansi (H. & M.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 117, pl. xvii, figs. 6*a-d*. Mus. No. 322.

Crassatella subquadrata Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 412, pl. xi, fig. 12. Mus. No. 12301.

Crenella elegantula (M. & H.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 75, pl. xxviii, figs. 6*a-c*. Mus. No. 1925.

Cucullæa (Idonearca?) cordata (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 89, pl. xxix, figs. 6*a*, *b*. Mus. No. 430.

Cucullæa (Idonearca) nebrascensis (Owen) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 88, pl. xxix, figs. 5*a*, *b*. Mus. No. 442.

Cucullæa (Idonearca) shumardi (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 86, pl. xxviii, figs. 15*a-g*; pl. xxix, fig. 4. Mus. No. 443.

Cucullæa terminalis Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 148, pl. iv, figs. 1*a*, *b*. Mus. No. 9890.

Cucullæa (Trigona?) obliqua Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 148, pl. xiv, figs. 1, *a*. Mus. No. 7849.

Cylichna scitula Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 276, pl. xxxi, figs. 3*a*, *b*. Mus. No. 282.

CRETACEOUS SPECIES—Continued.

Cylichna? volvaria M. & H.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 275, pl. xxxi, figs. 2*a*, *b*. Mus. No. 281.

Cyphosoma texanum (Rømer) Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 145, pl. i, fig. 3*e*? Mus. No. 9838.

Cyprimeria? subalata Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 158, pl. xv, fig. 7. Mus. No. 7848.

Cyprimeria? tenuis Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 361, pl. ii, fig. 5. Mus. No. 1319.

Cyprina ovata (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 146, pl. xxix, figs. 7*a-c*; fig. 8, p. 146. Mus. No. 306.

**Cyrena carletoni* (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 20. Mus. No. 7877.

Cyrena dakotensis (M. & H.) Meek.

Cret. No. 1. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 159, pl. i, figs. 1*a-d*, *f*. Rev. Non-Marine Foss. Moll., p. 30 or 436, pl. iv, figs. 3, 4. Mus. Nos. 192, 7901.

Cyrena? holmesii Meek.

Cret. No. 5. Bull. U. S. Geol. & Geogr. Surv. Terr., vol. i (2d ser.), No. 1, p. 45 (not figured). Mus. No. 7840.

Cyrena inflexa (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 290 pl. x, figs. 7*a, b*. Mus. No. 7822.

Cyrena securis (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 289, pl. iii, figs. 2*a-c*. Mus. No. 8073.

Cytherea leonensis Conrad.

U. S. Mex. Bound. Surv., vol. i, part ii, p. 153, pl. vi, fig. 1. Mus. No. 9853.

Cytherea nuttalli Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 162, pl. iv, fig. 5. Mus. No. 9905.

Cytherea texana Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 153, pl. vi, fig. 2. Mus. No. 9850.

Dentalium gracile (H. & M.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 438, pl. xii, fig. 26. Mus. No. 12299.

Dentalium gracile (H. & M.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 266, [pl. xviii, figs. 13*a-d*]. Mus. No. —.

Dentalium komooksense Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 364, pl. iii, fig. 6. Mus. No. 4270.

Dosinia missouriana (Morton sp.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 416, pl. xi, figs. 25, 26. Mus. No. 12249.

Endocostea sulcata (Rømer sp.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 404, pl. x, fig. 6. Mus. No. 12323.

* Not the figured specimen, but marked as a type by Dr. C. A. White.

CRETACEOUS SPECIES—Continued.

Endocostea typica Whitfield.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 403, pl. ix, figs. 1-6. Mus. No. 12261.

Entalis? paupercula (M. & H.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 269, pl. xviii, fig. 14. Mus. No. 311.

Eriphyla gregaria (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 124, pl. xvii, figs. 9a, b; figs. 6, 7, on p. 124. Mus. No. 332.

Ethmocardium speciosum (M. & H. sp.) White.

Proc. U. S. Nat. Mus., vol. ii, p. 291 (types of subgenus). Mus. No. 8049.

Eulimella? chrysalis (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 32, pl. xii, fig. 4a. Mus. No. 7869.

Eulimella? funicula (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 316, pl. ix, fig. 10a. Mus. No. 7881.

Eulimella? inconspicua (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 33, pl. xii, fig. 5a. Mus. No. 7871.

Euspira utahensis White.

Cret. No. 4 or 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 310, pl. iv, figs. 2a, b. 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 29. Mus. No. 8068.

Exogyra arietina (Rømer) Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 153, pl. vii, figs. 1c-e. Mus. No. 9866.

Exogyra costata (Say) Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 154, pl. ix, figs. 2a, b; pl. x, fig. 1. Mus. No. 9879.

Exogyra costata (Say) var. *fluminis* White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 174, pl. xvii, figs. 3c, d. Mus. No. 8654.

Exogyra fimbriata Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 154, pl. vii, figs. 2, a, b. Mus. No. 9864.

Exogyra forniculata White.

Proc. U. S. Nat. Mus., vol. ii, p. 293, pl. iv, figs. 3, 4. Rev. Foss. Ostreidæ N. A., p. 305, pl. lii, figs. 1, 2. Mus. No. 8022.

Exogyra fragosa Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 155, pl. viii, figs. 2a, b. Mus. No. 9844.

Exogyra læviuscula (Rømer) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 173, pl. xvii, fig. 2a. Mus. No. 8646.

Exogyra matheroniana (d'Orbigny) Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 154, pl. viii, figs. 1a-c. Mus. No. 9883.

Exogyra ponderosa (Rømer) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 172, pl. xiv, figs. 1a-c. Mus. No. 13417.

Exogyra winchelli White.

Proc. U. S. Nat. Mus., vol. ii, p. 294, pl. ii, figs. 1, 2; pl. iii, figs. 1, 2. Rev. Foss. Ostreidæ N. A., p. 307, pl. lii, figs. 6, 7; pl. iv, figs. 1, 2. Mus. No. 8021.

Fasciolaria buccinoides (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 358, pl. xxxi, figs. 8a-d. Mus. No. 272.

Fasciolaria? (Cryptorhytis) cheyennensis Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 365, pl. xix, figs. 13a, b. Mus. No. 289.

CRETACEOUS SPECIES—continued.

- Fasciolaria (Cryptorhytis) contorta** (Meek sp.) Whitf.
Cret. Nos. 4, 5. Rep. Geol. Black Hills of Dakota, p. 422, pl. xii, fig. 10. Mus. No. 12256.
- Fasciolaria ? (Cryptorhytis) flexicostata** (M. & H. sp.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 367, pl. xix, fig. 2. Mus. No. 262.
- Fasciolaria (Piestoecheilus) alleni** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 34, pl. xii, fig. 1a. Mus. No. 8046.
- Fasciolaria (Piestoecheilus) culbertsoni** Meek.
Cret. No. 5. Rep. U. S. Geol. Surv. Terr., 4to, vol. ix, p. 360, pl. xxxii, figs. 1a-f. Mus. No. 258.
- Fasciolaria (Piestoecheilus) culbertsoni** (M. & H.) Whitf.
Cret. Nos. 4, 5. Rep. Geol. Black Hills of Dakota, p. 423, pl. xii, fig. 11. Mus. No. 12264.
- Fasciolaria (Piestoecheilus ?) galpiniana** Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 362, pl. xxxii, figs. 2a, b. Mus. No. 287.
- Fasciolaria (Piestoecheilus) scarboroughi** Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 359, pl. xxxii, figs. 4, a-d. Mus. No. 259.
- Fusus cheyennensis** Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 424, pl. xii, fig. 9. Mus. No. 12304.
- Fusus (Neptunea ?) gabbi** (Meek) White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 317, pl. ix, fig. 9a. Mus. No. 7886.
- Fusus (Serrifusus) dakotensis** Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 374, pl. xxxi, fig. 11d. Mus. No. 256.
- Fusus ? (Serrifusus) dakotensis** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 374, pl. xxxii, figs. 6a, b. Mus. No. 256.
- Fusus ? (Serrifusus) dakotensis** var. Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 375, pl. xxxii, fig. 7a. Mus. No. 256.
- Fusus shumardi** (M. & H.) Whitf.
Cret. No. 2. Rep. Geol. Black Hills of Dakota, p. 424, pl. xii, figs. 7, 8. Mus. No. 12305.
- Fusus ? utahensis** (Meek) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 34, pl. xii, fig. 2a. Mus. No. 7885.
- Gervillia mudgeana** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 16, pl. xiv, figs. 3a, b. Mus. No. 8023.
- Gervillia subtortuosa** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 65, pl. xvi, figs. 7a-c. Mus. No. 356.
- Glycimeris berthoudi** White.
Cret. No. 3 or 4. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 299, pl. vi, figs. 1a, b. Mus. No. 8051.
- Glycimeris occidentalis** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 250, pl. xxxix, figs. 9a, b. Mus. No. 180.
- Goniomya americana** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 221, pl. xxx, figs. 12a, b. Mus. No. 432.

CRETACEOUS SPECIES—Continued.

Goniomya borealis Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 362, pl. ii, fig. 2. Mus. No. 12397.

Grammatodon? vancouverensis Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 356, pl. iii, figs. 5, *a*. Mus. No. 12398.

Gryphæa pitcheri (Morton) Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 155, pl. vii, figs. 3*a-d*. Mus. No. 9880.

Gryphæa pitcheri var. (Morton) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 171, pl. xvii, figs. 1*a-f*. Mus. No. 8653.

Gryphæa vesicularis (Lamk. ?) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 20, pl. xi, figs. 2*a-e*; pl. xvi, figs. 8*a, b*. Mus. No. 328.

Gyrodès conradi Meek.

Cret. No. 2? Rep. U. S. Geol. Surv. Terr., 4to, vol. ix, p. 310, figs. 33-36. Mus. No. 12459.

Gyrodès depressa Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, p. 159, pl. xv, figs. 1, *a*. Mus. No. 7856.

Hamites larvatus Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 165, pl. xxi, fig. 8. Mus. No. 9869.

Haminea occidentalis Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 271, pl. xviii, figs. 11*a, b*, 12*a, b*. Mus. No. 278.

Haminea minor Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 273, pl. xxxi, figs. 1*a, b*. Mus. No. 280.

Haminea subcylindrica Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 272, pl. xviii, figs. 10*a, b*. Mus. No. 279.

Haminea subcylindrica (M. & H.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 437, pl. xii, fig. 24. Mus. No. 12255.

Helicoceras mortoni (H. & M.) var. **tenuicostatum** Meek.

Cret. No. 4. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 487, pl. xxii, figs. 3*a-c*. Mus. No. 473.

Helicoceras pariense White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 203, pl. xix, figs. 2*a-d*. Mus. No. 8638.

Helicoceras stevensoni Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 447, pl. xiv, figs. 5-8. Mus. No. 12307.

Hemiaster humphreysanus Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 5, pl. x, figs. 1*a-g*. Mus. No. 331.

Heteroceras? angulatum (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 484, pl. xxi, figs. 3*a-c*. Mus. No. 474.

Heteroceras? cheyennense (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 483, pl. xxi, figs. 2*a, b*. Mus. No. 470.

Heteroceras cooperi (Gabb sp.) Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 367, pl. iii, figs. 7, *a*. Mus. No. 1350.

CRETACEOUS SPECIES—Continued.

- Heteroceras ? nebrascense** (M. & H.) Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 451, pl. xv, fig. 6. Mus. No. 12292.
- Heteroceras newtoni** Whitf.
Rep. Geol. Black Hills of Dakota, p. 449, pl. xv, figs. 1-4. Mus. No. 12288.
- Heteroceras tortum** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 481, pl. xxii, figs. 4a-c. Mus. No. 471.
- Heteroceras ? umbilicatum** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 482, pl. xxii, fig. 5. Mus. No. 472.
- Idonearca depressa** White.
Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 183, pl. xviii, figs. 13a, b. Mus. No. 8645.
- Idonearca shumardi** (M. & H.) Whitf.
Cret. No. 5. Rep. Geol. Black Hills of Dakota, p. 405, pl. xii, figs. 8-11. Mus. No. 12257.
- Inoceramus** ——— Meek.
Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 359, pl. i, fig. 6. Mus. No. 12507.
- Inoceramus altus** (M. & H.) Whitf.
Cret. No. 2. Rep. Geol. Black Hills of Dakota, p. 391, pl. ix, fig. 11. Mus. No. 12285.
- Inoceramus altus** Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 43, pl. xiv, figs. 1, a, b. Mus. No. 12462.
- Inoceramus balchii** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 56, pl. xv, figs. 1a, b. Mus. No. 484.
- Inoceramus barabini** (Morton) Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 398, pl. vii, fig. 7; pl. ix, fig. 8. Mus. No. 12286.
- Inoceramus barabini** (Morton) White.
Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 181. Mus. No. 8626.
- Inoceramus barabini** (Morton) White.
Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 180, pl. xvi, fig. 4a. Mus. No. 8621.
- Inoceramus barabini** (Morton) Meek.
Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 358, pl. iii, figs. 2, a.] Mus. No. 1262.
- Inoceramus cripsii** (Mantell) Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 152 (not the figured specimen). Mus. No. 9892.
- Inoceramus cripsii ? var. barabini** (Morton) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 49, pl. xiii, figs. 1a-c. Mus. No. 477.
- Inoceramus cripsii ? var. subundatus** Meek.
Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 358, pl. iii, figs. 1, a, 3, a. Mus. Nos. 1261, 1348.
- Inoceramus deformis** (Meek) White.
Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 179, pl. xv, fig. 1a. Mus. No. 8624.

CRETACEOUS SPECIES—Continued.

Inoceramus dimidius White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 181, pl. xvi, figs. 2a-d. Mus. No. 8622.

Inoceramus erectus Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 145, pl. xiii, figs. 1, a; pl. xiv, fig. 3. Mus. No. 7850.

Inoceramus exogyroides (M. & H.) Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 46, pl. v, figs. 3a-c. Mus. No. 2038.

Inoceramus flaccidus White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 178, pl. xvi, fig. 1a. Mus. No. 8618.

Inoceramus fragilis (H. & M.) Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 42, pl. v, fig. 5. Mus. No. 228.

Inoceramus fragilis (H. & M.) Whitf.

Cret. No. 2. Rep. Geol. Black Hills of Dakota, p. 390, pl. ix, fig. 10. Mus. No. 12273.

Inoceramus fragilis (H. & M.) White.

Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 178, pl. xv, fig. 3a. Mus. No. 8625.

Inoceramus gilberti White.

Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 285, pl. iii, figs. 1a-c. Mus. No. 8050.

Inoceramus howelli White.

Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 284, pl. iv, figs. 1a-c. Mus. No. 8052.

Inoceramus mytilopsis Conrad.

U. S. & Mex. Bound. Surv., vol. ii, part ii, p. 152, pl. v, fig. 6b. Mus. No. 9839.

Inoceramus oblongus (Meek) White.

Cret. No. 4. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 285, pl. ii, figs. 1a, b. Mus. No. 774.

Inoceramus perplexus Whitf.

Cret. No. 2. Rep. Geol. Black Hills of Dakota, p. 392, pl. viii, fig. 3; pl. x, fig. 5. Mus. No. 12274. Pl. x, fig. 4. Mus. No. 12263.

Inoceramus pertenuis (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 47, pl. xxxvii, figs. 3a, b; pl. xxxviii, figs. 3a, b. Mus. No. 182.

Inoceramus problematicus (Schlot, sp.) Whitf.

Cret. No. 2 or 3. Rep. Geol. Black Hills of Dakota, p. 389, pl. vii, fig. 11. Mus. No. 12281.

Inoceramus problematicus (Schlot, sp.) Meek.

Cret. No. 3. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 62, pl. ix, fig. 3a. Mus. No. 237.

Inoceramus problematicus (Schlot, sp.) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 177, pl. xvi, fig. 3a. Mus. No. 8620.

Inoceramus problematicus (Schlot, sp.) Meek.

Rep. Expl. Great Basin of Utah, J. H. Simpson, p. 358, pl. iv, fig. 1a. Mus. No. 488.

Inoceramus problematicus var. *aviculoides* (M. & H.) Meek.

Cret. No. 3. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 63, pl. ix, fig. 4. Mus. No. 242.

CRETACEOUS SPECIES—Continued.

Inoceramus proximus? var. **subcircularis** Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 55, pl. xii, figs. 2*a*,
b. Mus. No. 479.

Inoceramus proximus (Tuomey) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 53, pl. xii, figs. 7*a*,
b. Mus. No. 481.

Inoceramus sagensis (Owen) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 439, pl. vii, fig. 12; pl. viii, fig. 2.
 Mus. No. 12313.

Inoceramus sagensis var. **nebrascensis** (Owen) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 52, pl. xiii, figs.
 2*a*, *b*. Mus. No. 485.

Inoceramus simpsoni (Meek) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 395, pl. viii, fig. 1. Mus. No.
 12320.

Inoceramus simpsoni? (Meek) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 395, pl. ix, fig. 9. Mus. No. 12275.

Inoceramus sublævis (H. & M.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 393, pl. x, figs. 1-3. Mus. Nos.
 12276, 12277.

Inoceramus tenuilineatus (H. & M.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 400, pl. ix, figs. 12, 13. Mus. No.
 12314.

Inoceramus tenuirostris (M. & H.) Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 59, fig. 5 on p. 59.
 Mus. No. 1906.

Inoceramus texanus Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 152, pl. v, fig. 7. Mus. No. 9874.

Inoceramus undabundus (M. & H.) Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 60, pl. iii, figs. 2*a*,
b. Mus. No. 1909.

Inoceramus umbonatus Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 44, pl. iii, figs. 1*a*,
b; pl. iv, figs. 1*a*, *b*. Mus. Nos. 480, 2039.

Inoceramus vanuxemi (M. & H.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 396, pl. vii, figs. 8, 9. Mus. No.
 12296.

Inoceramus vanuxemi (M. & H.) var. Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 398, pl. vii, fig. 10. Mus. No.
 12296.

Inoceramus vanuxemi (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 57, pl. xiv, figs. 2*a*,
b. Mus. No. 483.

Leptosolen conradi Meek.

Cret. No. 1. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 253, pl. ii, figs. 12*a*,
b. Mus. No. 7895.

Leiopistha (Cymella) undata (M. & H.) White.

Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 187, pl.
 xviii, fig. 15*a*. Mus. No. 8658.

Leiopistha (Psilomya) meekii White.

Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 186, pl.
 xviii, figs. 14*a*, *c*, *d*. Mus. No. 8647.

CRETACEOUS SPECIES—Continued.

Lima leonensis Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 151, pl. v, figs. 3a-c. Mus. No. 9831.

Lima wacoensis (Rømer) Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 151, pl. v, figs. 4a, b. Mus. No. 9889.

Lima wacoensis (Rømer) White.

Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 176, pl. xvii, figs. 4a-c. Mus. No. 8656.

Limopsis parvula (M. & H.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 97, pl. xxviii, figs. 17a-c. Mus. No. 350.

Linearia ? formosa (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 199, pl. xxx, fig. 2, Mus. No. 396.

Lingula subspatula (H. & M.) White.

Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 169, pl. xv, fig. 4a. Mus. No. 8663.

Liopistha (Cymella) undata (M. & H. sp.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 187, pl. xxxix, figs. 1a, b. Mus. No. 187.

Lispodesthes lingulifera White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 192, pl. xviii, figs. 2a, b. Mus. No. 8661.

Lispodesthes nuptialis White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 192, pl. xviii, figs. 3a, b. Mus. No. 8660.

Lispodesthes ? obscurata White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 30, pl. xi, figs. 7a, b. Mus. No. 8076.

Lucina cleburni White.

Proc. U. S. Nat. Mus., vol. iv, p. 139, pl. facing p. 139, figs. 3, 4. Mus. No. 11469.

Lucina (Diplodonta ?) subundata (H. & M.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 411, pl. xi, figs. 17, 18. Mus. No. 12252.

Lucina occidentalis (Morton sp.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 409, pl. xi, figs. 19, 20. Mus. No. 12267.

Lucina occidentalis (Morton sp.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 134, pl. xvii, figs. 4a-c. Mus. No. 334.

Lucina occidentalis (Morton sp.) var. **ventricosa** (M. & H.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 135, pl. xvii, figs. 3a, b. Mus. No. 344.

Lucina ventricosa (H. & M.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 410, pl. xi, figs. 14-16. Mus. No. 12260.

Lucina subundata (H. & M.) White.

Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 184, pl. xviii, fig. 12a. Mus. No. 8644.

Lucina subundata (H. & M.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 133, pl. xvii, figs. 2, a-e. Mus. No. 345.

CRETACEOUS SPECIES--Continued.

- Lunatia concinna** (H. & M. sp.) Meek.
Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 314, pl. xxxii, figs. 11a-c. Mus. No. 264.
- Lunatia concinna** (H. & M. sp.) Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 430, pl. xii, fig. 13. Mus. No. 12250.
- Lunatia occidentalis** Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 315, pl. xxxii, figs. 12a-c. Mus. No. 290.
- Lunatia subcrassa** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 316, pl. xxxix, figs. 3a-c. Mus. No. 265.
- Mactra ? cañonensis** (Meek) White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 297, pl. ix, figs. 11a-c. Mus. No. 7844.
- Mactra (Cymbophora) alta** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 210, pl. xxxvii, figs. 2a, b. Mus. Nos. 192, 2007.
- Mactra (Cymbophora ?) formosa** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 207, pl. xxxix, fig. 7. Mus. No. 177.
- Mactra (Cymbophora) nitidula** (M. & H.) Meek.
Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 211, pl. xxx, figs. 6a-c. Mus. No. 1913.
- Mactra (Cymbophora) siouxensis** (M. & H.) Meek.
Cret. No. 1. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 206, pl. i, figs. 7b, c. Mus. No. 207.
- Mactra (Cymbophora) utahensis** Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 155, pl. xv, figs. 9, a, b. Mus. Nos. 7854, 12530.
- Mactra ? emmonsí** Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 153, pl. xv, fig. 8. Mus. No. 12525.
- Mactra ? holmesi** (Meek) White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 295, pl. vi, figs. 5a, b, 4a, b. Mus. No. 8088.
- Mactra ? incompta** White.
Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 185, pl. xvii, figs. 6a, b. Mus. No. 8636.
- Mactra texana** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 148, pl. iv, figs. 1a, b. Mus. No. 9855.
- Mactra (Trigonella ?) arenaria** Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 154, pl. xiv, fig. 5. Mus. No. 7853.
- Margarita mudgeana** Meek.
Cret. No. 1. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 300, pl. ii, fig. 9b. Mus. No. 7903.
- Margarita nebrascensis** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 298, pl. xix, figs. 8a, b, 9a, b. Mus. Nos. 291, 415.
- Margaritella flexistriata** (E. & S. sp.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 302, pl. xix, figs. 11, a-d. Mus. No. 286.

CRETACEOUS SPECIES—Continued.

Martesia cuneata (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 259, pl. xxx, figs. 8a, b. Mus. No. 455.

Melampus sp. ? (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 25, pl. xii, fig. 6a. Rev. non-marine Foss. Moll., p. 38 or 444, pl. v, fig. 17. Mus. No. 7890.

Melampus ? **antiquus** (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 23, pl. xii, figs. 11a-d. Rev. non-marine foss. moll., p. 38 or 444, pl. v, figs. 13-16. Mus. No. 8085.

Mesalia ? **kausasensis** Meek.

Cret. No. 1. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 333, pl. ii, figs. 7a, b. Mus. No. 7899.

Micrabacia americana Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 1, pl. xxviii, figs. 1a, b. Mus. No. 456.

Microstizia millepunctata Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 4, pl. xxviii, figs. 2a-c. Mus. No. 300.

Monopleura marcida White.

Bull. U. S. Geol. Surv., No. 4, p. 96, pls. iii, iv. Mus. No. 12364.

Monopleura pinguicula White.

Bull. U. S. Geol. Surv., No. 4, p. 96, pl. v. Mus. No. 12365.

Mortoniceras shoshonense Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 449, pl. vi, figs. 3a-c, [6]b. Mus. No. 1991.

Mortoniceras ? **vermilionense** (M. & H.) Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 450, pl. vii, figs. 2a, b. Mus. No. 224.

Mytilus subarcuatus (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 69, pl. xxxviii, figs. 2a, b. Mus. No. 354.

Natica collina Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 157, pl. xiii, figs. 2a, b. Mus. No. 9865.

Natica texana Courad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 157, pl. xiii, figs. 1a, b. Mus. No. 9861.

Nautilus campbelli Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 373, pl. vi, figs. 2, a. Mus. No. 12461.

Nautilus dekayi (Morton) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 496, pl. xxvii, figs. 1a-e. Mus. No. 390.

Nautilus dekayi var. **montanaensis** Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 498, pl. xxvii, figs. 2a, b. Mus. No. 392.

Nautilus dekayi var. **montanaensis** (Meek) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 439, pl. xvi, figs. 10, 11. Mus. No. 12347.

Nautilus elegans (Sowerby) Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 499, pl. viii, figs. 2a-c. Mus. No. 1912.

CRETACEOUS SPECIES—Continued.

Neæra moreauensis (M. & H.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 239, pl. xvii, figs. 11a-c. Mus. No. 420.

Neæra moreauensis (M. & H.) Whitf.

Rep. Geol. Black Hills of Dakota, p. 420, pl. xi, fig. 31. Mus. No. 12272.

Neæra ventricosa (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 238, pl. xxx, figs. 3a-e. Mus. No. 419.

Neithea occidentalis Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 150, pl. v, figs. 1a, b. Mus. No. 9872.

Neithea texana (Rømer) Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 151 (not the figured specimen). Mus. No. 9896.

Nemodon sulcatus (E. & S. sp.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 82, pl. xv, figs. 6a, b. Mus. No. 428.

Nerinea schottii Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 158, pl. xiv, figs. 3a, b. Mus. No. 9873.

Neritina bannisteri (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 25, pl. xii, figs. 10a-c. Mus. Nos. 7876, 12487.

Neritina incompta White.

Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 308, pl. vii, figs. 6a-c. Mus. No. 8093.

Neritina pisiformis (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 26, pl. xii, figs. 9a-c. Mus. No. 7884.

Neritina pisiformis (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 26, pl. xii, figs. 9a-c. Mus. No. 7884.

Neritina pisum (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 308, pl. vii, figs. 11a-c. Mus. No. 7883.

Neritina (Velatella) bellatula (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 27, pl. xii, figs. 8a, b. Rev. non-Marine Foss. Moll., p. 52 or 458, pl. v, figs. 8, 9. Mus. No. 7872.

Neritina (Velatella) carditoides (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 28, pl. xii, fig. 7a. Rev. non-Marine Foss. Moll., p. 52 or 458, pl. v, fig. 10. Mus. No. 7873.

Neritina (Velatella) carditoides (Meek) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 189, pl. xviii, figs. 7a-c. Mus. No. 8632.

Neritina (Velatella) patelliformis (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 309, pl. vii, figs. 7a-d. Mus. Nos. 7888, 8094.

Neritina (Velatella) patelliformis var. ***weberensis*** (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 309, pl. vii, figs. 8a, b. Mus. No. 8092.

Nodosaria texana Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 159, pl. xiv, figs. 4a-c. Mus. No. 9887.

CRETACEOUS SPECIES—Continued.

Nucula cancellata (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 102, pl. xxviii, figs. 13[a, c], d, e. Mus. Nos. 434, 1931.

Nucula obsoletistriata (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 100, pl. xv, figs. 10a, b. Mus. No. 351.

Nucula planimarginata (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 101, pl. xv, figs. 8a, b; pl. xxviii, fig. 16. Mus. Nos. 437, 436.

Nucula planimarginata (M. & H.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 406. pl. xi, figs. 5, 6. Mus. No. 12259.

Nucula subplana (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 352, pl. xvii, figs. 7a, b. Mus. No. 352.

Nuculana bisulcata (M. & H.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 104, pl. xv, figs. 4a, b. Mus. No. 1948.

Nuculana bisulcata (Meek) Whitf.

Rep. Geol. Black Hills of Dakota, p. 407, pl. xi, fig. 7. Mus. No. 12265.

Nuculana ? equilateralis (M. & H.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 106, pl. xv, figs. 7a, b. Mus. No. 323.

Nuculana subnasuta (H. & M.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 105, pl. xv, fig. 9. Mus. No. 305.

Odontobasis constricta (H. & M. sp.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 352, figs. 41, 42; p. 353. Mus. No. 1943.

Ophioderma ? bridgerensis (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 8, pl. xii, fig. 12a. Mus. No. 7820.

Ostrea (Alectryonia) bellaplicata (Shumard) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 276, pl. iv, figs. 3a, b. Rev. Foss. Ostreidæ N. A., p. 292, pl. xlvii, figs. 1, 2. Mus. No. 12383.

Ostrea (Alectryonia) sannionis White.

Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 277, pl. ii, figs. 2a-e. Rev. Foss. Ostreidæ N. A., p. 300, pl. xlv, figs. 3-7. Mus. No. 8056.

Ostrea anomioides (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 10, pl. xi, figs. 4a, b. Rev. Foss. Ostreidæ N. A., p. 291, pl. xxxix, figs. 4, 5. Mus. No. 7823.

Ostrea bella Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 156, pl. x, figs. 4a, b. Rev. Foss. Ostreidæ N. A., p. 292, pl. xxxix, fig. 6. Mus. No. 9852.

Ostrea coalvillensis Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 140, pl. xv, figs. 10, a-c. Rev. Foss. Ostreidæ N. A., p. 293, pl. xxxvi, figs. 1-4. Mus. No. 7800.

Ostrea congesta (Conrad) Meek.

Cret. No. 3. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 13, pl. ix, figs. 1a-e. Rev. Foss. Ostreidæ N. A., p. 294, pl. xxxix, figs. 11-13. Mus. No. 238.

Ostrea cortex Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 157, pl. xi, figs. 4a-d. Rev. foss. ostreidæ N. A., p. 294, pl. xxxvii, figs. 3, 4. Mus. No. 9871.

CRETACEOUS SPECIES—Continued.

- Ostrea cortex** (Conrad) White.
Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 170, pl. xv, figs. 2a-c. Mus. No. 8642.
- Ostrea (Gryphæa ?) patina** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 16, pl. x, figs. 2a, b; a, b (bis). Rev. Foss. Ostreidæ N. A., p. 298, pl. xlvii, figs. 5, 6. Mus. No. 325.
- Ostrea (Gryphæa ?) patina** var. **A** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 18, pl. x, figs. 3a, b; pl. xi, figs. 1a, b. Rev. Foss. Ostreidæ N. A., p. 298, pl. xlvii, fig. 4. Mus. No. 325.
- Ostrea (Gryphæa ?) patina** var. **C** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 18, pl. xi, figs. 4a, b. Mus. No. 325.
- Ostrea (Gryphæostrea ?) subalata** Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 15, pl. xxviii, fig. 5. Rev. Foss. Ostreidæ N. A., p. 300, pl. xxxix, fig. 10. Mus. No. 2101.
- Ostrea inornata** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 14, pl. x, fig. 4. Mus. No. 329.
- Ostrea lugubris** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 156, pl. x, figs. 5a, b. Rev. Foss. Ostreidæ N. A., p. 297, pl. xli, fig. 3. Mus. No. 9822.
- Ostrea multilirata** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 157, pl. xii, figs. 1a-d. Rev. Foss. Ostreidæ N. A., p. 298, pl. xxxviii, figs. 1, 2. Mus. No. 9895.
- Ostrea (Gryphæostrea) patina** var. **B** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 18, pl. xi, figs. 3a, b. Mus. No. 325.
- Ostrea pellucida** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 15, pl. xxviii, figs. 4a, b. Rev. Foss. Ostreidæ N. A., pl. 1, figs. 5, 6. Mus. No. 330.
- Ostrea prudentia** White.
Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. ix, part i, p. 171, pl. xiv, figs. 2a-d. Rev. Foss. Ostreidæ N. A., p. 299, pl. xl, figs. 5, 6. Mus. No. 8639.
- Ostrea quadriplicata** (Shumard) White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 275, pl. v, fig. 6a. Rev. Foss. Ostreidæ N. A., p. 299, pl. xliii, fig. 5. Mus. No. 8077.
- Ostrea robusta** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 156, pl. xi, figs. 3a, b. Rev. Foss. Ostreidæ N. A., p. 300, pl. xl, figs. 3, 4. Mus. No. 9885.
- Ostrea soleniscus** (Meek) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 9, pl. xi, figs. 2a, b. Rev. Foss. Ostreidæ N. A., p. 300, pl. xlii, fig. 1. Mus. No. 7780.
- Ostrea subspatulata** (Lyell & Sowerby) Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 155, pl. x, figs. 3a, b. Mus. No. 9867.
- Ostrea vellicata** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 156, pl. xi, figs. 2a, b. Mus. No. 9833.
- Pachymya ? herseyi** White.
Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 298, pl. v, figs. 5a, b. Mus. No. 8091.
- Pachymya ? compacta** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 22, pl. xvii, figs. 4a, b. Mus. No. 8027.

CRETACEOUS SPECIES—Continued.

Paliurus pentangulatus White.

Cret. No. 5? 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 302, pl. iv, figs. 4a, b. Mus. No. 8081.

Paramithrax ? walkeri Whitf.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 37, pl. xvi, figs. 1a-c; pl. xvii, fig. 1a. (Casts of type.) Mus. No. 8360.

Parapholas sphenoides White.

Cret. No. 3. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 300, pl. v, figs. 1a-d. Mus. No. 12380.

Pharella ? pealei (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 21, pl. xi, figs. 6a, b. Mus. No. 7821.

Philoceras ? halli (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 458, pl. xxiv, figs. 3a-c. Mus. No. 384.

Pholadomya papyracea (M. & H.) Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 217, pl. v, figs. 4a, b. Mus. No. 1910.

Pholadomya sancti-sabæ Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 164, pl. xxi, fig. 4. Mus. No. 9859.

Pholadomya subelongata Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 362, pl. ii, figs. 1, a. Mus. No. 1299.

Pholadomya subventricosa (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 217, pl. xxxix, figs. 8a, b. Mus. No. 181.

Pholadomya texana Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 152, pl. xix, fig. 3. Mus. No. 9877.

Phylloceras ? ramosus Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 371, pl. v, figs. 1, a, b. Mus. No. 12451.

Phylloteuthis subovata (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 505, pl. xxxiii, fig. 3. Mus. No. 414.

Physa ——— ? White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 307, pl. vii, fig. 13a. Rev. Non-Marine Foss. Moll., p. 38 or 444, pl. iv, fig. 5. Mus. No. 12384.

Physa carletoni (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 306, pl. vii, fig. 12. Rev. Non-Marine Foss. Moll., p. 43 or 449, pl. v, fig. 18. Mus. No. 7875.

Pinna petrina White.

Rep. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 182, pl. xiii, figs. 7a, b. Mus. No. 8640.

Pinna stevensoni White.

Proc. U. S. Nat. Mus., vol. iii, p. 47. Mus. No. 8101.

Placenticerias placenta var. **intercalare** (M. & H.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 468, pl. xxiii, figs. 1a-c. Mus. No. 369.

Placenticerias (Sphenodiscus) lenticulare (Owen sp.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 473, pl. xxxiv, figs. 1a-c; fig. 66 on p. 473. Mus. No. 411.

CRETACEOUS SPECIES—Continued.

Placenticeras ? vancouverense Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 370, pl. vi, figs. 1, *a-c*. Mus. No. 1342.

Placunopsis hilliardensis White.

Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 278, pl. vii, fig. 14a. Mus. No. 8082.

Plicatula hydrotheca White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 279, pl. vi, figs. 3a, *b*. Mus. No. 8048.

Plicatula incongrua Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 153, pl. vi, figs. 10a, *b*. Mus. No. 9863.

Prionocyclus woolgari (Mantel sp.) Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 455, pl. vii, figs. 1a-d, *f-h*, 3. Mus. No. 223.

Prionocyclus wyomingensis (Meek) White.

Cret. No. 3? 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 35, pl. xv, figs. 1a-e. Mus. No. 7729.

Prionocyclus wyomingensis (Meek) Whitf.

Cret. No. 2. Rep. Geol. Black Hills of Dakota, p. 440, pl. xiv, figs. 1-3. Mus. No. 12283.

Protocardia (Leptocardia) subquadrata (E. & S. sp.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 175, pl. xxix, figs. 8a-c. Mus. No. 278.

Protocardia salinaensis Meek.

Cret. No. 1. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 174, pl. ii, [fig. 13a]. Mus. No. 7897.

Pseudobuccinum nebrascense Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 350, pl. xxxi, figs. 5a-d. Mus. No. 290.

Pteria linguiformis (E. & S. sp.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 32, pl. xvi, figs. 1c, *d*. Mus. No. 324.

Pteria linguiformis var. *subgibbosa* Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 33, pl. xxviii, fig. 12. Mus. No. 461.

Pteria linguiformis (E. & S. sp.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 384, pl. vii, fig. 2. Mus. No. 12337.

Pteria (Oxytoma ?) gastroides (Meek) White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 280, pl. x, fig. 1a. Mus. No. 7789.

Pteria (Oxytoma) nebrascana (E. & S.) Meek.

Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 34, pl. xvi, fig. 3b. Mus. No. 425.

Pteria (Oxytoma) salinensis White.

Cret. No. 1. 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 15, pl. xvi, figs. 2a, *b*. Mus. No. 8025.

Pteria parkensis White.

11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 279, pl. iii, fig. 3a. Mus. No. 8074.

Pteria (Pseudopteria) fibrosa (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 36, pl. xvii, figs. 17c, *d*. Mus. No. 460.

CRETACEOUS SPECIES—Continued.

- Pteria (Pseudopteria) fibrosa** (M. & H.) Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 386, pl. vii, fig. 5. Mus. No. 12332.
- Pteria (Pseudopteria) propleura** (Meek) White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 281, pl. x, figs. 2*a*, *c*. Mus. Nos. 7788, 7790.
- Pteria (Pseudopteria) sublevis** Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 387, pl. vii, fig. 6. Mus. No. 12251.
- Pteria ?? stabilitatis** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 15, pl. xvii, fig. 3*a*. Mus. No. 8057.
- Ptychoceras crassum** Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 459, pl. xvi, figs. 3, 4. Mus. No. 12324.
- Ptychoceras meekianum** Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 457, pl. xvi, fig. 1. Mus. No. 12279.
- Pyrifusus (Neptunella) intertextus** Meek.
Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 348, pl. xix, figs. 14*a*, *b*. Mus. No. 253.
- Pyrifusus (Neptunella) newberryi** Meek.
Cret. Nos. 4, 5. Rep. U. S. Geol. Surv. Terr., 4to, vol. ix, p. 346, pl. xxxi, fig. 6*e*. Mus. No. 257*a*. Figs. 6*a-d*, *f*; fig. 39, p. 346. Mus. No. 257.
- Pyrifusus (Neptunella) subturritus** (M. & H. sp.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 347, pl. xxxii, figs. 3*a*, *b*; fig. 40, p. 347. Mus. No. 254.
- Pyrina parryi** Hall.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 144, pl. i, figs. 1*a-d*. Mus. No. 9854.
- Pyropsis bairdi** (M. & H. sp.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 369, pl. xxxi, figs. 10*a*, *b*. Mus. No. 252.
- Pyropsis bairdi** var. *rotula* Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 371, fig. 47. Mus. No. 252.
- Requienia patagiata** White.
Bull. U. S. Geol. Surv., No. 4, p. 94, pl. i, figs. 1-8; pl. ii, figs. 1-4. Mus. No. 12363.
- Rostellaria ? collina** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 158, pl. xiii, figs. 4*a*, *b*. Mus. No. 9870.
- Rostellaria ? texana=R. ? collina** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 157, pl. xiii, figs. 3*a*, *b*. Mus. No. 9875.
- Rostellites texana** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 158, pl. xiv, figs. 2*a*, *b*. Mus. No. 9886.
- Scaphites abyssinus** (Morton sp.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 441, pl. xxxv, figs. 2*a*, *b*. Mus. No. 409.
- Scaphites cheyennensis** (Owen sp.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 437, pl. xxxv, figs. 3*a*, *b*. Mus. No. 402.
- Scaphites conradi** (Morton sp.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 430, pl. xxxvi, figs. 2*a-f*. Mus. Nos. 398, 400.

CRETACEOUS SPECIES—Continued.

- Scaphites conradi** var. **gulosus** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 432, pl. xxxvi, fig. 1. Mus. No. 399.
- Scaphites conradi** (Morton sp.) var. **intermedius** Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 433, pl. xxxiv, figs. 3a-c. Mus. No. 408.
- Scaphites larvæformis** (M. & H.) Meek.
Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 418, pl. vi, figs. 6a-c. Mus. No. 229.
- Scaphites mandanensis** (Morton sp.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 443, pl. xxxv, figs. 1a-c. Mus. No. 410.
- Scaphites nicolletii** (Morton sp.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 435, pl. xxxiv, figs. 4a-c, 2a-b. Mus. Nos. 405, 407.
- Scaphites nodosus** (Owen) Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 441, pl. xiii, fig. 12. Mus. No. 12284.
- Scaphites nodosus** (Owen sp.) var. **brevis** Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 426, pl. xxv, figs. 1a-c. Mus. No. 367.
- Scaphites nodosus** var. **brevis** (Meek) Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 443, pl. xiii, figs. 8, 9. Mus. No. 12289.
- Scaphites nodosus** var. **plenus** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 429, pl. xxvi, figs. 1a-c. Mus. No. 364.
- Scaphites nodosus** (Owen sp.) var. **quarangularis** Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 428, pl. xxv, fig. 4. Mus. No. 365.
- Scaphites nodosus** (Owen) var. **quadangularis** Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 428, pl. xxv, figs. 2a-c, 3a-c. Mus. Nos. 370, 366.
- Scaphites nodosus** var. **quadrangularis** (Meek) Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 443, pl. xiii, figs. 10, 11. Mus. No. 12291.
- Scaphites vermiformis** (M. & H.) Meek.
Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 423, pl. vi, figs. 4a, b. Mus. No. 1902.
- Scaphites ventricosus** (M. & H.) Meek.
Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 425, pl. vi, figs. 7a, b, 8a-c. Mus. Nos. 1903, 1904.
- Scaphites warreni** (M. & H.) Meek.
Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 420, pl. vi, fig. 5. Mus. No. 225.
- Scaphites warreni** (M. & H.) White.
Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 200, pl. xix, fig. 3a. Mus. No. 8636.

CRETACEOUS SPECIES—Continued.

Scaphites warreni (M. & H.) Whitf.

Rep. Geol. Black Hills Dakota, p. 444, pl. xiii, figs. 2, 3. Mus. No. 12290. Figs. 1, 4.
Mus. No. 12262.

Scaphites wyomingensis (M. & H.) Whitf.

Cret. No. 2? Rep. Geol. Black Hills of Dakota, p. 446, pl. xiii, figs. 5-7. Mus. No.
12258.

Serpula tenuicarinata (M. & H.) Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 507, pl. vi, fig.
1. Mus. No. 226.

Solemya subplicata (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 129, pl. xxviii,
fig. 19. Mus. No. 449.

Sphæriola? cordata (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 137, pl. xxix,
figs. 3a-c. Mus. No. 457.

Sphæriola? endotrachys Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 139, pl. xxix,
fig. 2. Mus. No. 12385.

Sphæriola? obliqua Meek.

Cret. No. 5? Bull. U. S. Geol. & Geogr. Surv. Terr., 2, series, No. 1, p. 46 (not
figured). Mus. No. 7835.

Sphæriola transversa Whitf.

Cret. No. 5. Rep. Geol. Black Hills of Dakota, p. 415, pl. x, figs. 14-16. Mus.
No. 12316.

Sphæriola? warrenana Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 138 (not figured).
Mus. No. 458.

Spironema tenuilineata (M. & H. sp.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 342, pl. xxxii,
figs. 9a-c. Mus. No. 270.

Syncyclonema rigida (H. & M.) Meek.

Rep. Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 27, pl. xvi,
figs. 5a, b. Mus. No. 347.

Syncyclonema rigida (H. & M.) Whitf.

Rep. Geol. Black Hills of Dakota, p. 383, pl. vii, fig. 1. Mus. No. 12272.

Tancredia americana (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 142, pl. xxxviii,
figs. 1b, e. Mus. No. 186.

Tancredia? cœlionotus White.

Cret. No. 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 288, pl. v, figs. 2a-d.
Mus. No. 8072.

Tapes hilgardi (Shumard) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 22, pl. xvi, figs. 3b, c. Mus.
No. 8028.

Tellina?? isonema Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 156, pl. xv, fig. 6. Mus. No. 7851.

Tellina? modesta Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 157, pl. xv, fig. 5. Mus. No. 7852.

Tellina (Peronæa?) equilateralis (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 196, pl. xxxix,
figs. 5a-c. Mus. No. 179.

CRETACEOUS SPECIES—Continued.

- Tellina (Peronæa ?) scitula** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 197, pl. xxx, figs. 1a, b. Mus. No. 439.
- Teredo globosa** (M. & H.) Meek.
Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 264, pl. xxx, fig. 13; figs. 31, 32, p. 264. Mus. No. 422.
- Teredo selliformis** (M. & H.) Meek.
Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 262, pl. xvii, fig. 19d. Mus. No. 421.
- Terebratula choctawensis** (Shumard) Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 156. Mus. No. 9848.
- Terebratula leonensis** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 164, pl. xxi, fig. 2. Mus. No. 9837.
- Terebratula wacoensis** (Rømer) Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 147, pl. iii, figs. 1a-c. Mus. No. 9838.
- Tessarolax hitzii** White.
Cret. No. 4. 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 29, pl. xv, fig. 2a. Mus. No. 7526.
- Thetis ? circularis** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 190, pl. xvii, figs. 8a-c. Mus. No. 340.
- Thetis circularis** (M. & H.) Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 417, pl. xi, figs. 22-24. Mus. No. 12330.
- Thracia gracilis** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 224, pl. xxxix, fig. 6b. Mus. No. 188.
- Thracia myæformis** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 23, pl. xvii, figs. 2a, b. Mus. No. 8029.
- Thracia ? prouti** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 225, pl. xxxvii, figs. 6a, b. Mus. No. 189.
- Thracia subgracilis** Whitf.
Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 419, pl. xi, figs. 29, 30. Mus. No. 12253.
- Thracia ? subtortuosa** (M. & H.) Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 223, pl. xxxvii, fig. 5. Mus. No. 185.
- Toxaster elegans** (Shumard sp.) Hall.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 146, pl. xxi, figs. 1a-e. Mus. No. 9856.
- Toxaster texanus** (Rømer) Hall.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 145, pl. i, figs. 2a-c. Mus. No. 9857.
- Trachytriton vinculum** (H. & M. sp.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 304, pl. xix, figs. 7a-d. Mus. No. 261.
- Trapezium ? micronema** (Meek) White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 293, pl. x, fig. 5a. Mus. No. 7846.
- Trapezium truncatum** (Meek) White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 292, pl. x, figs. 6a, b. Mus. No. 7813.

CRETACEOUS SPECIES—Continued.

- Trigonarca (Breviarca) exigua** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 93, pl. xv, figs. 2a-f. Mus. No. 348.
- Trigonia emoryi** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 148, pl. iii, figs. 2a-c. Mus. No. 9849.
- Trigonia evansi** Meek.
Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, p. 359, pl. ii, fig. 7. Mus. No. 12452.
- Trigonia texana** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 148, pl. iii, figs. 3a-e. Mus. No. 9843.
- Turbinolia texana** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 144, pl. ii, figs. 3a, b. Mus. No. 9836.
- Turbonilla (Chemnitzia) coalvillensis** (Meek) White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 305, pl. ix, figs. 5a, b. Mus. No. 7880.
- Turbonilla (Chemnitzia) melanopsis** (Conrad?) White.
Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 197, pl. xviii, fig. 10a. Mus. No. 8655.
- Turnus (Goniochasma) stimpsoni** (M. & H.) Meek.
Cret. No. 4. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 256, pl. xxx, figs. 9a, b. Mus. No. 451.
- Turris (Surcula?) contortus** Meek.
Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 385, fig. 49; pl. xxxi, figs. 7a-c.
- Turris (Surcula?) hitzi** Meek.
Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 386, fig. 50, p. 387. Mus. No. 12458.
- Turritella coalvillensis** (Meek) White.
Cret. No. 4 or 5. 11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 315, pl. ix, fig. 4a. Mus. No. 7878.
- Turritella leonensis** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 165, pl. xxi, figs. 7a, b. Mus. No. 9834.
- Turritella marnochi** White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 315, pl. vii, figs. 5a, b. Mus. No. 8055.
- Turritella (Aclis?) micronema** (Meek) White.
11th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 316, pl. ix, fig. 8a. Mus. No. 7882.
- Turritella planilateris** Conrad.
U. S. & Mex. Bound. Surv., vol. i, part ii, p. 158, pl. xiv, figs. 1, a, b. Mus. No. 9845.
- Turritella spironema** (Meek) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 31, pl. xii, fig. 3a. Mus. No. 7870.
- Turritella uvasana** (Conrad) White.
Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 195, pl. xviii, figs. 11a, b. Mus. No. 8657.
- Tylostoma princeps** White.
Proc. U. S. Nat. Mus., vol. iii, p. 140, pl. ii, figs. 1, 2. Mus. No. 8864.

CRETACEOUS SPECIES—Continued.

Uintacrinus socialis (Grinnel) Meek.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. ii, No. 4, pp. 375-378, figs. A, B, on p. 375. Mus. No. 8044.

Valvata nana (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 33, pl. xii, figs. 17*a*, *b*. Rev. Non-Marine Foss. Moll., p. 64 or 470, pl. v, figs. 19, 20. Mus. No. 8093.

Vanikoro ambigua Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 330, pl. xix, figs. 12*a-d*. Mus. No. 267.

Vanikoropsis tuomeyana M. & H.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 332, pl. xxxix, figs. 2*a*, *b*. Mus. No. 266.

Veniella goniophora Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 152, pl. iv, fig. 4; fig. 12 on p. 152. Mus. No. 1720.

Veniella goniophora (Meek) White.

Rep. U. S. Geogr. & Geol. Expl. & Surv. west of 100th Meridian, vol. iv, part i, p. 185 (not figured). Mus. No. 8550.

Veniella humilis (M. & H.) Whitf.

Cret. No. 5. Rep. Geol. Black Hills of Dakota, p. 414, pl. x, figs. 8-12. Mus. No. 12333.

Veniella mortoni (M. & H.) Meek.

Cret. No. 2. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 154, pl. iv, figs. 3*a*, *b*. Mus. No. 2037.

Veniella subtumida (M. & H.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 154, pl. xvii, figs. 5*a*, *b*. Mus. No. 361.

Veniella (Venilicardia?) humilis (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 155, pl. xxx, figs. 5*a-c*. Mus. No. 444.

Volsella attenuata (M. & H.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 74, pl. xxviii, figs. 8*a*, *b*. Mus. No. 486.

Volsella (Brachydontes) multilinigera (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 18, pl. xi, [fig. 3*a*]. Mus. No. 7781.

Volsella galpiniana (E. & S. sp.) Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 73, pl. xxviii, figs. 7*a*, *b*. Mus. No. 446.

Volsella meekii (E. & S. sp.) Meek.

Cret. Nos. 4, 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 72, pl. xv, figs. 3*a-c*. Mus. No. 313.

Websteria cretacea Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 3, [pl. xxviii, figs. 3*a-c*]. Mus. Nos. 333, 416.

Yoldia evansi (M. & H.) Whitf.

Cret. No. 4. Rep. Geol. Black Hills of Dakota, p. 409, pl. xi, fig. 1. Mus. No. 12340.

Yoldia scitula Meek.

Cret. No. 5. Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 110, pl. xxviii, fig. 9. Mus. No. 302.

LARAMIE SPECIES.

Acroloxus minutus (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 543, pl. xlv, fig. 10. Rev.
Non-Marine Foss. Moll., p. 45, or 451, pl. xxiv, fig. 27. Mus. No. 3126.

Anodonta parallela White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 62, pl. xxiv, fig. 3a. Rev. Non-
Marine Foss. Moll., p. 23 or 429, pl. xix, fig. 5. Mus. No. 9028.

Anodonta propatoris White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 61, pl. xxiv, figs. 2a-d. Rev.
Non-Marine Foss. Moll., p. 23 or 429, pl. xix, figs. 6-9. Mus. No. 13406

Anomia micronema (Meek) White.

Rev. Non-Marine Foss. Moll., p. 16 or 442, pl. xii, figs. 7, 9, 11. Mus. Nos. 12492,
9931.

Anomia micronema (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 57, pl. xxv, figs. 2a-d. Rev.
Non-Marine Foss. Moll., p. 16 or 442, pl. xii, figs. 6, 8, 10. Mus. No. 9038.

Axinea holmesiana White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 59, pl. xx, figs. 2a, b. Mus. No.
9055.

Bulinus atavus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 86, pl. xxiv, figs. 5a, b. Rev.
Non-Marine Foss. Moll., p. 44 or 450, pl. xxv, figs. 6, 7. Mus. No. 12481.

Bulinus disjunctus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 86, pl. xxiv, figs. 6a, b. Rev.
Non-Marine Foss. Moll., p. 45 or 451, pl. xxv, figs. 4, 5. Mus. No. 12469.

Bulinus longiusculus (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 541, [pl. xliii, figs. 16a, b].
Rev. Non-Marine Foss. Moll., p. 45 or 451, [pl. xxv, fig. 8]. Mus. No. 2120.

Bulinus subelongatus M. & H.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 540, pl. xlii, figs. 13a, b. Rev.
Non-Marine Foss. Moll., p. 44 or 450, pl. xxv, figs. 10, 11. Mus. No. 2118.

Campeloma macrospira (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 102, pl. xxx, fig. 2a. Rev. Non-
Marine Foss. Moll., p. 63 or 469, pl. viii, figs. 6, 7. Mus. No. 7619.

Campeloma multilineata (M. & H.) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 101, pl. xxviii, figs. 4a, b. Rev.
Non-Marine Foss. Moll., p. 63 or 469, pl. xxvii, figs. 1, 7. Mus. No. 9029.

Campeloma multilineata White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 63, pl. xxvii, figs. 2-4, 6. Mus.
No. 8139.

Campeloma producta White.

Rev. Non-Marine Foss. Moll., p. 63 or 469, pl. xxvi, figs. [25], 26. Mus. No. 8140.

Campeloma producta White.

Rev. Non-Marine Foss. Moll., p. 63, pl. xxvi, figs. 21-24, 27. Mus. No. 8140.

Campeloma vetula (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 587, pl. xlii, figs. 14a, b.
Rev. Non-Marine Foss. Moll., p. 63 or 469, pl. xxvii, figs. 8, 9. Mus. No. 2153

Cassiopella turricula White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 97, pl. xxvii, figs. 3a-d, f-g.
Rev. Non-Marine Foss. Moll., p. 58 or 464, pl. xxiii, figs. 25-29. Mus. No.
9058.

LARAMIE SPECIES—Continued.

Columna teres (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 555, pl. xlv, figs. 11*a*, *b*.
Rev. Non-Marine Foss. Moll., p. 48 or 454, pl. xxv, fig. 15. Mus. No. 2115.

Columna vermicula (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 556, pl. xlv, figs. 12, *a*, *b*.
Rev. Non-Marine Foss. Moll., p. 48 or 454, pl. xxv, fig. 16. Mus. No. 2114.

Columna vermicula (M. & H.) var. *contraria* Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 557 (unfigured). Mus. No. 2114.

Corbicula angheyi White.

Rev. Non-Marine Foss. Moll., p. 32 or 438, pl. xxi, figs. 4-6. Mus. No. 11557.

Corbicula [bannisteri Meek] *occidentalis* (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 75, pl. xxi, figs. 3*b*, *c*. Mus. No. 7834.

Corbicula berthoudi White.

Rev. Non-Marine Foss. Moll., p. 32 or 438, pl. xxi, figs. 1-3. Mus. No. 11556.

Corbicula cleburni White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 73, pl. xxiii, figs. 1*a-c*. Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. xx., figs. 7-9. Mus. No. 9023.

Corbicula cytheriformis (M. & H.) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 74, pl. xxi, figs. 4*a-d*. Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. xxii, figs. 3-6. Mus. Nos. 8117, 9673.

Corbicula cytheriformis (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 520, pl. xl, figs. 5*a-e*. Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. xxii, figs. 1, 2. Mus. No. 2133.

Corbicula (Leptesthes) cardiniæformis White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 73, pl. xxv, figs. 5*a*, *b*. Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. xxii, figs. 10, 11. Mus. No. 9024.

Corbicula (Leptesthes) cardiniæformis White.

Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. xxii, figs. 12-15. Mus. No. 12477.

Corbicula (Leptesthes) fracta (Meek) White.

Rev. Non-Marine Foss. Moll., p. 33 or 439, pl. xx, figs. 2-6. Mus. No. 8104.

Corbicula (Leptesthes) macropistha White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 78, pl. xxiii, figs. 4*a-f*. Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. xxi, figs. 11-14. Mus. No. 8124.

Corbicula (Leptesthes) planumbona (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 77, pl. xxi, figs. 2*a-d*. Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. xxii, figs. 7-9. Mus. No. 8126.

Corbicula (Leptesthes) subelliptica (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 523, pl. xliii, figs. 9*b*, *c*. Mus. No. 12473.

Corbicula nebrascensis (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 522, pl. xliii, figs. 2*a*, *b*. Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. xx, figs. 12, 13. Mus. No. 2131.

Corbicula obesa White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 72, pl. xxiii, figs. 3*a-e*. Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. xxiii, figs. 7-11. Mus. No. 9025.

Corbicula occidentalis (M. & H.) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 75, pl. xxi, fig. 3*a*. Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. xxiii, figs. 1-6. Mus. Nos. 8112, 8113.

LARAMIE SPECIES—Continued.

- Corbicula subelliptica* (M. & H.) Meek.
Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 523, pl. xliii, fig. 9a. Mus. No. 441.
- Corbicula subelliptica* (M. & H.) White.
Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. xx, figs. 10, 11. Mus. No. 8123.
- Corbicula subelliptica* var. *moreauensis* (M. & H.) Meek.
Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 524, pl. xliii, figs. 1a-c. Mus. No. 2132.
- Corbicula umbonella* (Meek) White.
Rev. Non-Marine Foss. Moll., p. 32 or 438, pl. xxi, figs. 7, 8. Mus. No. 12468.
- Corbicula (Veloritina) durkeei* Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 167, pl. xvi, figs. 6, a, c, d. Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. viii, figs. 10, 11. Mus. No. 7621.
- Corbicula (Veloritina) durkeei* (Meek) White.
Rev. Non-Marine Foss. Moll., p. 31 or 437, pl. viii, fig. 9. Mus. No. 8148.
- Corbicula (Veloritina) durkeei* (Meek sp.) White.
Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 207, pl. xxi, figs. 13a, b. Mus. No. 8613.
- Corbula (Anisorhyncus) pyriformis* Meek.
Rep. Expl. Great Basin of Utah, by Capt. J. H. Simpson, p. 361, pl. v, figs. 9, 10. Mus. No. 493.
- Corbula (Potamomya) concentrica* Meek. = *Corbula (Anisorhyncus) pyriformis* Meek.
Proc. Acad. Nat. Sci. Philad., 1860, vol. xii, p. 312. Mus. No. 494.
- Corbula engelmanni* Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 174, pl. xvii, fig. 1a. Mus. No. 495.
- Corbula mactriformis* (M. & H.) Meek.
Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 528, pl. xliii, figs. 7a-[f]. Rev. Non-Marine Foss. Moll., p. 36 or 442, pl. xviii, figs. 12-15. Mus. No. 2168.
- Corbula perundata* (M. & H.) Meek.
Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 530, pl. xl, fig. 4c. Mus. No. 2181.
- Corbula pyriformis* (Meek) White.
Rev. Non-Marine Foss. Moll., p. 35 or 441, pl. viii, figs. 12-16. Mus. No. 8149.
- Corbula subtrigonalis* (M. & H.) White.
Rev. Non-Marine Foss. Moll., p. 36 or 442, pl. xix, fig. 10. Mus. No. 8109. (N. B.—Fig. 15 is example of *C. trepidophora* Meek.)
- Corbula subtrigonalis* (M. & H.) White.
12 Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 80, pl. xxv, figs. 6a-c. Rev. Non-Marine Foss. Moll., p. 36 or 442, pl. xix, figs. 11-13. Mus. No. 8107.
- Corbula (Trepidophora) Meek) subtrigonalis* (M. & H.) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 80, pl. xxv, fig. 6f. Rev. Non-Marine Foss. Moll., p. 36 or 442, pl. xix, fig. 15. Mus. No. 8109.
- Corbula undifera* (Meek) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 80, pl. xxix, figs. 4a-f. Rev. Non-Marine Foss. Moll., p. 36 or 442, pl. xviii, figs. 6-9. Mus. No. 9060.
- Corbula undifera* (Meek) var. *subundifera* White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 81, pl. xxix, figs. 5a-c. Rev. Non-Marine Foss. Moll., p. 36 or 442, pl. xviii, figs. 10, 11. Mus. No. 9056.
- Cypris* ——— ? White.
Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 216 (not figured). Mus. No. 8592.

LARAMIE SPECIES—Continued.

Goniobasis chrysalis (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 91, pl. xxx, figs. 6a, b. Rev. Non-Marine Foss. Moll., p. 56 or 462, pl. vi, figs. 13, 14. Mus. No. 8153.

Goniobasis chrysalloidea White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 92, pl. xxx, figs. 5a, b. Rev. Non-Marine Foss. Moll., p. 56 or 462, pl. vi, figs. 10, 11. Mus. No. 8157.

Goniobasis cleburni White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 91, pl. xxx, figs. 4a-d. Rev. Non-Marine Foss. Moll., p. 56 or 462, pl. vi, figs. 7-9. Mus. No. 8152.

Goniobasis convexa Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 562, pl. xlii, figs. 2a, b; fig. 71, p. 562. Rev. Non-Marine Foss. Moll., p. 57 or 463, pl. xxvi, figs. 6, 7. Mus. No. 2142.

Goniobasis convexa var. *impressa* (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 563, pl. xlii, figs. 2c, d. Rev. Non-Marine Foss. Moll., p. 57 or 463, pl. xxvi, figs. 8, 9. Mus. No. 2143.

Goniobasis endlichi White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 92, pl. xxx, figs. 7a-c. Rev. Non-Marine Foss. Moll., p. 57 or 463, pl. vii, figs. 7-9. Mus. No. 8161.

Goniobasis gracilenta Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 568, pl. xlii, fig. 3; p. 569, fig. 74. Rev. Non-Marine Foss. Moll., p. 57 or 463, pl. xxvi, fig. 12. Mus. No. 21482.

Goniobasis gracilenta (Meek) White.

Rev. Non-Marine Foss. Moll., p. 57 or 463, pl. xxvi, fig. 13. Mus. No. 8203.

Goniobasis invenusta (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 564, pl. xlii, figs. 1b, [1a, d, e]. Rev. Non-Marine Foss. Moll., p. 57 or 463, pl. xxvi, fig. 17. Mus. No. 2144.

Goniobasis nebrascensis (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 565, [pl. xliii, figs. 12a, h]. Rev. Non-Marine Foss. Moll., p. 57 or 463, [pl. xxvi, figs. 15-16]. Mus. No. 2138.

Goniobasis nebrascensis (M. & H.) White.

Rep. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 213, pl. xxi, figs. 9, b, c. Mus. No. 8602.

Goniobasis omitta (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 568, pl. xlii, figs. 4a-c. Rev. Non-Marine Foss. Moll., p. 57 or 463, pl. xxvi, fig. 10. Mus. No. 2184.

Goniobasis sublævis (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 567, pl. xlii, figs. 5a, b. Rev. Non-Marine Foss. Moll., p. 57 or 463, pl. xxvi, fig. 18. Mus. No. 2145.

Goniobasis tenuicarinata (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 566, pl. xliii, figs. 14a-c. Rev. Non-Marine Foss. Moll., p. 57 or 463, pl. xxvi, fig. 11. Mus. No. 2141.

Goniobasis tenuicarinata (M. & H.) White.

Rep. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 212, pl. xxi, figs. 10a, b. Mus. No. 8597.

Helix evanstonensis White.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. iv, p. 714. Rev. Non-Marine Foss. Moll., p. 48 or 454, pl. xxvii, figs. 29-31. Mus. No. 12502.

LARAMIE SPECIES—Continued.

- Helix kanabensis** White.
Rep. Geol. Eastern Uinta Mts., J. W. Powell, p. 120. Rev. Non-Marine Foss. Moll., p. 48 or 454, pl. xxv, figs. 12-14. Mus. No. 8883.
- Helix (Patula) sepulta** White.
Proc. U. S. Nat. Mus., vol. iii, p. 160. Rev. Non-Marine Foss. Moll., p. 48 or 454. Mus. No. 8908.
- Helix ? vetusta** (M. & H.) Meek.
Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 552, pl. xlii, figs. 7*a*, *b*. Rev. Non-Marine Foss. Moll., p. 48 or 454, pl. xxvii, fig. 28. Mus. No. 2104.
- Hyalina ? occidentalis** (M. & H.) Meek.
Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 547, pl. xlii, figs. 6*a-d*. Rev. Non-Marine Foss. Moll., p. 46 or 470, pl. xxvii, fig. 27. Mus. No. 2106.
- Hydrobia anthonyi** (M. & H.) Meek.
Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 571, pl. xliii, figs. 10*a-c*. Rev. Non-Marine Foss. Moll., p. 59 or 465, pl. xxvii, fig. 39. Mus. No. 2149.
- Hydrobia recta** White.
Rep. Geol. Eastern Uinta Mts., J. W. Powell, p. 132. Rev. Non-Marine Foss. Moll., p. 60 or 466, pl. xxvii, fig. 38. Mus. No. 12501.
- Hydrobia utahensis** White.
Rep. Geol. Eastern Uinta Mts., J. W. Powell, p. 132. Rev. Non-Marine Foss. Moll., p. 60 or 466, pl. xxvii, fig. 35. Mus. No. 8870.
- Hydrobia warrenana** (M. & H.) Meek.
Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 572, pl. xliii, figs. 11*a-c*. Rev. Non-Marine Foss. Moll., p. 59 or 465, pl. xxvii, fig. 40. Mus. No. 2147.
- Limnæa (Acella) haldemania** White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 84, pl. xxx, figs. 9*a*, *b*. Rev. Non-Marine Foss. Moll., p. 39 or 445, pl. vi, figs. 18, 19. Mus. No. 8163.
- Limnæa ? compactilis** (Meek) White.
Rev. Non-Marine Foss. Moll., p. 39 or 445, pl. xxvi, fig. 14. Mus. No. 8207.
- Limnæa (Limnophysa) nitidula** Meek.
Rep. Expl. Great Basin of Utah, J. H. Simpson, p. 363, pl. v, fig. 14. Rev. Non-Marine Foss. Moll., p. 39 or 445, pl. vi, figs. 15, 16. Mus. No. 685.
- Limnæa (Pleurolimnæa) tenuicostata** (M. & H.) Meek.
Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 534, pl. xliv, figs. 13*a-c*. Rev. Non-Marine Foss. Moll., p. 39 or 445, pl. xxiii, fig. 24. Mus. No. 12482.
- Melanopsis ? americana** White.
Rev. Non-Marine Foss. Moll., p. 55 or 461, pl. xxiii, figs. 21-23. Mus. Nos. 11559, 12495.
- Melania insculpta** (Meek) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 94, pl. xx, fig. 4*a*. Mus. No. 8197.
- Melania insculpta** (Meek) White.
Rev. Non-Marine Foss. Moll., p. 54 or 460, pl. xxvi, figs. 4, 5. Mus. No. 12490.
- Melania wyomingensis** (Meek) White.
12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 95, pl. xxviii, figs. 6*a*, *b*. Rev. Non-Marine Foss. Moll., p. 54 or 460, pl. xxvi, fig. 2. Mus. No. 9018.
- Melania wyomingensis** (Meek) White.
Rev. Non-Marine Foss. Moll., p. 54 or 460, pl. xxvi, fig. 3. Mus. No. 12491.
- Melania wyomingensis** Meek.
Ann. Rep. U. S. Geol. & Geogr. Surv. Terr. for 1872, p. 516 (not figured specimens.) Mus. No. 7833.

LARAMIE SPECIES—Continued.

- Micropyrgus minutulus** (M. & H.) Meek.
 Rev. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 575, pl. xliii, figs. 18*a*, *b*. Rev.
 Non-Marine Foss. Moll., p. 59 or 465, pl. xxvi, fig. 20. Mus. No. 2137.
- Neritina bruneri** White.
 Rev. Non-Marine Foss. Moll., p. 53 or 459, pl. xxiii, figs. 14, 15. Mus. No. 11558.
- Neritina naticiformis** White.
 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 89, pl. xxx, figs. 3*a*, *b*. Rev.
 Non-Marine Foss. Moll., p. 52 or 458, pl. vii, figs. 5, 6. Mus. No. 12485.
- Neritina (Velatella) baptista** White.
 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 89, pl. xxix, figs. 6*a*, *b*. Rev.
 Non-Marine Foss. Moll., p. 52 or 458, pl. xxiii, figs. 16, 17. Mus. No. 12504.
- Neritina volvilineata** White.
 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 88, pl. xxi, figs. 6*a*, *b*. Rev. Non-
 Marine Foss. Moll., p. 52 or 458, pl. xxiii, figs. 12, 13. Mus. No. 8198.
- Nuculana inclara** White.
 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 60, pl. xxv, fig. 7*a*. Mus. No.
 8122.
- Odontobasis buccinoides** White.
 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 102, pl. xx, figs. 3*a*, *b*. Mus.
 No. 9045.
- Odontobasis ? formosa** White.
 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 103, pl. xxviii, fig. 7*a*. Mus.
 No. 9046.
- Ostrea arcuatilis** (Meek), **glabra** (M. & H.) White.
 Rev. Non-Marine Foss. Moll., p. 15 or 421, pl. x, fig. 5. Rev. Foss. Ostreidæ N. A.,
 p. 308, pl. lix, fig. 5. Mus. No. 7839.
- Ostrea glabra** (M. & H.) Meek.
 Rev. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 509, pl. xl, figs. 2*a*-*d*. Rev.
 Non-Marine Foss. Moll., p. 15 or 421, pl. ix, figs. 1, 2. Rev. Foss. Ostreidæ N.
 A., p. 307, pl. lviii, figs. 1, 2. Mus. No. 2165.
- Ostrea glabra** (M. & H.) White.
 Rev. Non-Marine Foss. Moll., p. 15 or 421, pl. ix, figs. 3, 4; pl. x, figs. 1, 2. Rev.
 Foss. Ostreidæ N. A., p. 307, pl. lviii, figs. 3, 4; pl. lix, figs. 1, 2. Mus. No.
 13407.
- Ostrea glabra** (M. & H.) White.
 Rev. Non-Marine Foss. Moll., p. 15 or 421, pl. xi, figs. 1, 2. Rev. Foss. Ostreidæ
 N. A., pl. lx, figs. 1, 2. Mus. No. 12472.
- Ostrea insecureis** White.
 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 56, pl. xxi, figs. 1*a*, *b*. Rev.
 Non-Marine Foss. Moll., p. 15 or 421, pl. x, figs. 3, 4. Rev. Foss. Ostreidæ N.
 A., p. 308, pl. lix, figs. 3, 4. Mus. No. 9053.
- Ostrea subtrigonalis** (E. & S.) White.
 Rev. Non-Marine Foss. Moll., p. 15 or 421, pl. xii, figs. 2-5. Rev. Foss. Ostreidæ
 N. A., p. 308, pl. lxi, figs. 4-7. Mus. No. 8386.
- Ostrea subtrigonalis ?** (E. & S.) Meek.
 Rev. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 510, pl. xl, figs. 1*a*-*d*. Mus.
 No. 2172.
- Ostrea (wyomingensis) glabra** White.
 12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 56, pl. xx, figs. 1*a*-*c*. Rev. Non-
 Marine Foss. Moll., p. 15 or 421, pl. xi, figs. 3, 4; pl. xii, fig. 1. Rev. Foss.
 Ostreidæ N. A., p. 307, pl. lx, figs. 3, 4; pl. lxi, fig. 1. Mus. No. 9062.

LARAMIE SPECIES—Continued.

Physa ——— ? White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 85, pl. xxx, fig. 11. Rev. Non-Marine Foss. Moll., p. 43 or 449, pl. vi, fig. 17. Mus. No. 12484.

Physa copei White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 85, pl. xxiv, figs. 4*a*, *b*. Rev. Non-Marine Foss. Moll., p. 44 or 450, pl. xxv, figs. 1, 2. Mus. No. 12470.

Physa felix White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 84, pl. xxii, fig. 1*a*. Rev. Non-Marine Foss. Moll., p. 44 or 450, pl. xxv, fig. 3. Mus. No. 9054.

Pisidium saginatum White.

Rep. Geol. Eastern Uinta Mts., J. W. Powell, p. 128. Rev. Non-Marine Foss. Moll., p. 34 or 440, [pl. xx, figs. 14, 15]. Mus. No. 8208.

Planorbis ——— ? White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 210 (not figured). Mus. No. 8595.

Planorbis æqualis White.

Proc. U. S. Mat. Mus., vol. iii, p. 159. Rev. Non-Marine Foss. Moll., p. 42 or 448, pl. xxix, fig. 10. Mus. No. 8909.

Planorbis (Bathyomphalus) amplexus (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 539 (not the figured specimen). Mus. No. 2105.

Planorbis (Bathyomphalus) kanabensis White.

Rep. Geol. Eastern Uinta Mts., J. W. Powell, p. 119. Rev. Non-Marine Foss. Moll., p. 41 or 447, pl. xxvii, figs. 21-23. Mus. No. 12506.

Planorbis (Bathyomphalus) planoconvexus (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 538, pl. xlv, figs. 9*a-c*. Rev. Non-Marine Foss. Moll., p. 41 or 447, pl. xxvii, figs. 17, 18. Mus. No. 2182.

Planorbis convolutus (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 536, pl. xlii, figs. 12*a*, *b*. Mus. No. 2167.

Planorbis convolutus (M. & H.) var. Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 538, pl. xlii, figs. 11*a-e*. Rev. Non-Marine Foss. Moll., p. 41 or 447, pl. xxvii, fig. 16. Mus. No. 2176.

Pyrgulifera humerosa Meek.

Rep. Expl. Great Basin of Utah, J. H. Simpson, p. 363, pl. v, figs. 6*a-c*. Mus. No. 498.

Pyrgulifera humerosa Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 176, pl. xvii, fig. 19; fig. 6 on p. 177. Rev. Non-Marine Foss. Moll., p. 54 or 460, pl. vi, figs. 4, 5. Mus. Nos. 12470, 12499.

Rhytophorus meekii White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 82, pl. xxx, figs. 8*a*, *b*. Rev. Non-Marine Foss. Moll., p. 38 or 444, pl. viii, figs. 4, 5. Mus. No. 8159.

Rhytophorus priscus Meek.

Rep. Expl. Great Basin of Utah, J. H. Simpson, p. 364, pl. v, figs. 4*a*, *b*. Rev. Non-Marine Foss. Moll., p. 38 or 444, pl. viii, figs. 2, 3. Mus. No. 500.

Sphærium ——— ? White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 208 (not figured). Mus. No. 8593.

Sphærium formosum (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 526 (not the figured specimen). Mus. No. 2125.

LARAMIE SPECIES—Continued.

Sphærium planum (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 526, [pl. xliii, figs. 6a, b]. Rev.
Non-Marine Foss. Moll., p. 33 or 439, [pl. xvii, fig. 8]. Mus. No. 2130.

Sphærium recticardinale (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 527, [pl. xliii, figs. 3a, b]. Rev.
Non-Marine Foss. Moll., p. 33 or 439, [pl. xvii, fig. 9]. Mus. No. 2129.

Thaumastus limnæiformis (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 553, [pl. xliv, figs. 8, a-d]. Mus.
No. 2111.

Tulotoma thompsoni White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 100, pl. xxxviii, fig. 2e? Rev. Non-
Marine Foss. Moll., p. 61 or 467, pl. xxiv, fig. 17. Mus. No. 9026.

Tulotoma thompsoni White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 100, pl. xxxviii, figs. 2a-h. Rev.
Non-Marine Foss. Moll., p. 61 or 467, pl. xxiv, figs. 17-22. Mus. No. 9026.

Unio aldrichi White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 62, pl. xxix, figs. 2a, b. Rev. Non-
Marine Foss. Moll., p. 27 or 433, pl. xv, figs. 4, 5. Mus. No. 9042.

Unio belliplicatus (Meek) White.

Rev. Non-Marine Foss. Moll., p. 24 or 430, pl. vi, fig. 1. Mus. No. 8146.

Unio belliplicatus var. Meek.

(Indicated as varieties by F. B. Meek, but not published.)

Unio brachyopisthus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 64, pl. xxii, figs. 2a, b. Mus. No.
9051.

Unio couesii White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 64, pl. xxvii, fig. 1a. Rev. Non-
Marine Foss. Moll., p. 26 or 432, pl. xvi, fig. 1. Mus. No. 9033.

Unio cryptorhynchus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 68, pl. xxiv, figs. 1a, b. Rev.
Non-Marine Foss. Moll., p. 25 or 431, pl. xiv, fig. 6. Mus. No. 12503.

Unio cryptorhynchus White.

Rev. Non-Marine Foss. Moll., p. 25 or 431, pl. xiv, fig. 7. Mus. No. 12483.

Unio danæ (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 517, pl. xli, figs. 3a-c. Mus.
No. 2163.

Unio danæ (M. & H.) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 68, pl. xxvii, figs. 2a, b. Rev.
Non-Marine Foss. Moll., p. 27 or 433, pl. xviii, figs. 1, 2. Mus. No. 9021.

Unio deweyanus (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 519, pl. xli, figs. 2a-c. Rev.
Non-Marine Foss. Moll., p. 25 or 431, pl. xvii, figs. 4, 5. Mus. No. 2175.

Unio endlichi White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 66, pl. xxvi, figs. 1a, b. Rev.
Non-Marine Foss. Moll., p. 26 or 432, pl. xv, figs. 1, 2. Mus. No. 9022.

Unio goniambonatus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 63, pl. xxix, figs. 1a, b. Rev.
Non-Marine Foss. Moll., p. 27 or 433, pl. xix, figs. 3, 4. Mus. No. 9043.

Unio gonionotus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 71, pl. xxvi, figs. 2a, c-e. Rev.
Non-Marine Foss. Moll., p. 27 or 433, pl. xiii, figs. 7, 9, 10. Mus. No. 9035.

LARAMIE SPECIES—Continued.

Unio holmesianus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 67, pl. xxii, figs. 4*a-c*. Rev. Non-Marine Foss. Moll., p. 27 or 433, pl. xvi, figs. 2-6. Mus. No. 9041.

Unio mendax White.

Bull. U. S. Geol. & Geogr. Surv. Terr., vol. iii, p. 605. Rev. Non-Marine Foss. Moll., p. 27 or 433, pl. xviii, figs. 3-5. Mus. No. 8873.

Unio primærus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 70, pl. xxix, fig. 3*b*. Rev. Non-Marine Foss. Moll., p. 26 or 432, pl. xiv, figs. 4, 5. Mus. No. 12474.

Unio priscus (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 516, pl. xliii, fig. 8*d*. Rev. Non-Marine Foss. Moll., p. 26 or 432, pl. xiv, fig. 1. Mus. No. 2162.

Unio proavitus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 65, pl. xxii, figs. 3*a-d*. Rev. Non-Marine Foss. Moll., p. 27 or 433, pl. xiii, figs. 3-6. Mus. No. 9036.

Unio propheticus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 65, pl. xxii, fig. 5*a*. Rev. Non-Marine Foss. Moll., p. 27 or 433, pl. xv, fig. 3. Mus. No. 9052.

Unio senectus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 69, pl. xxviii, figs. 1*a-c*. Rev. Non-Marine Foss. Moll., p. 26 or 432, pl. xix, figs. 1, 2. Mus. No. 8141.

Unio subspatulatus Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 518, pl. xli, figs. 1*a, b*. Rev. Non-Marine Foss. Moll., p. 25 or 431, pl. xiv, figs. 2, 3. Mus. No. 2164.

Unio vetustus Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 164, pl. xvi, figs. 5*a, b*. Rev. Non-Marine Foss. Moll., p. 24 or 430, pl. vii, fig. 1. Mus. No. 7764.

Unio vetustus (Meek) White.

Rev. Non-Marine Foss. Moll., p. 24 or 430, pl. vii, fig. 4. Mus. No. 8147.

Unio vetustus Meek.

Rep. Expl. Great Basin of Utah, J. H. Simpson, p. 361, pl. v, figs. 12*a, b*. Mus. No. 492.

* **Unio vetustus** (Meek) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, p. 206, pl. xxi, figs. 12*a-d*. Mus. No. 8591.

Valvata ? montanaensis Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 591, figs. 81-83 on p. 591. Rev. Non-Marine Foss. Moll., p. 64 or 470, pl. xxvii, fig. 24. Mus. No. 2177. *r*.

Vitрина obliqua (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 545, pl. xlii, figs. 10*a, b*. Rev. Non-Marine Foss. Moll., p. 46 or 452, pl. xxvii, figs. 32, 33. Mus. No. 2108.

Viviparus ——— ? White.

Rep. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 215, pl. xxi, figs. 7*a, b*. Mus. No. 8609.

Viviparus conradi (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 579, pl. xlii, figs. 15*c, d*. Mus. No. 2156.

Viviparus conradi (M. & H.) White.

Rev. Non-Marine Foss. Moll., p. 61 or 467, pl. xxiv, figs. 4-6. Mus. No. 2156.

* A mistake; this is really *Unio mendax* White.

LARAMIE SPECIES—Continued.

Viviparus coesii White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 99, pl. xxx, fig. 1a. Rev. Non-Marine Foss. Moll., p. 61 or 467, pl. viii, fig. 1. Mus. No. 8151.

Viviparus ionicus White.

Rep. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 215, pl. xxi, figs. 7a, b. Mus. No. 8608.

Viviparus leai (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 577, pl. xlv, figs. 6a-c. Mus. No. 2154.

Viviparus leai (M. & H.) White.

Rev. Non-Marine Foss. Moll., p. 61 or 467, pl. xxvii, figs. 10-14. Mus. Nos. 8142, 12480.

Viviparus leidyi (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 582, pl. xlv, fig. 4. Rev. Non-Marine Foss. Moll., p. 61 or 467, pl. xxiv, fig. 7. Mus. No. 12489.

Viviparus leidyi var. **formosus** (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 583, pl. xlv, figs. 3a-c. Rev. Non-Marine Foss. Moll., p. 61 or 467, pl. xxiv, figs. 8, 9. Mus. No. 2159.

Viviparus panguitchensis White.

Rep. Geol. Uinta Mts., J. W. Powell, p. 123. Rev. Non-Marine Foss. Moll., p. 61 or 467, pl. xxv, figs. 19-21. Mus. No. 8145.

Viviparus plicapressus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 98, pl. xxviii, figs. 3a, b. Rev. Non-Marine Foss. Moll., p. 61 or 467, pl. xxiv, figs. 25, 26. Mus. No. 8199.

Viviparus prudentius White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 98, pl. xxviii, figs. 5a, b. Rev. Non-Marine Foss. Moll., p. 61 or 467, pl. xxv, figs. 17, 18. Mus. No. 9031.

Viviparus raynoldsianus Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 584, pl. xlv, figs. 7a, b. Rev. Non-Marine Foss. Moll., p. 61 or 467, pl. xxv, figs. 22, 23. Mus. No. 1970.

Viviparus retusus (M. & H.) White.

Rev. Non-Marine Foss. Moll., p. 61 or 467, pl. xxiv, figs. 1-3. Mus. No. 8143.

Viviparus trochiformis (M. & H.) White.

Rev. Non-Marine Foss. Moll., p. 61 or 467, pl. xxiv, figs. 10-16. Mus. No. 8144.

Viviparus trochiformis (M. & H.) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 214, pl. xxi, figs. 4a-c. Mus. No. 8601.

Viviparus trochiformis (M. & H.) var. White.

Rep. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 215, pl. xxi, figs. 5a, b. Mus. No. 8598.

Volsella (Brachydontes) laticostata White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 59, pl. xxv, fig. 4a. Rev. Non-Marine Foss. Moll., p. 17 or 423, pl. xiii, fig. 2. Mus. No. 8121.

Volsella (Brachydontes) regularis White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., pp. 58, 59, pl. xxv, fig. 3a. Rev. Non-Marine Foss. Moll., p. 17 or 423, pl. xiii, fig. 1. Mus. No. 9044.

EOCENE SPECIES.

Busycon ? blakei Conrad.

Rep. Expls. & Survs. Mississippi River to the Pacific Ocean, vol. v, p. 322, pl. ii, fig. 13. Mus. No. 1863.

Bythinella gregaria Meek.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 48, pl. xix, figs. 6a, b. Rev. Non-Marine Foss. Moll., p. 60 or 466, pl. xxviii, figs. 12, 13. Mus. No. 7836.

Cardita planicosta (Lamarek) Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 161, pl. xix, fig. 2. Mus. No. 9900.

***Cardita planicosta** (Lamarek) Conrad.

Rep. Expls. & Survs. Mississippi River to the Pacific Ocean, vol. v, p. 321. Mus. No. 1837.

Cardium linteum Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. v, p. 320, pl. ii, fig. 1. Mus. No. 1834.

Corbicula powelli White.

Rep. Geol. of Eastern Uinta Mts., J. W. Powell, p. 127. Mus. No. 12508.

Crassatella alta Conrad.

Rep. Expls. Survs. Mississippi River to the Pacific Ocean, vol. v, p. 321 (not figured). Mus. No. 1838.

Crassatella declivis Heilprin.

Proc. U. S. Nat. Mus., vol. iii, p. 151, pl. —, fig. 9. Mus. No. 2490.

Cytherea nuttali Conrad.

Rep. U. S. & Mex. Bound. Surv., vol. i, part ii, p. 162, pl. iv, fig. 5. Mus. No. 9905.

Dosinia alta Conrad.

Rep. Expls. & Survs. Mississippi River to the Pacific Ocean, vol. v, p. 320, pl. ii, fig. 2. Mus. No. 1835.

Eucheilodon creno-carinata Heilprin.

Proc. U. S. Nat. Mus., vol. iii, p. 150, pl. —, fig. 4. Mus. No. 8921.

Fusus marnochi Heilprin.

Proc. U. S. Nat. Mus., vol. iii, p. 151, pl. —, fig. 6. Mus. No. 8917.

Goniobasis tenera (Hall) White.

Rep. U. S. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 212, [pl. xxi, figs. 11a-c]. Mus. No. 8603.

Goniobasis tenera (Hall) White.

Rev. Non-Marine Foss. Moll., p. 58, pl. xxxi, figs. 1-30. Mus. No. 8887.

Goniobasis simpsoni Meek.

Rep. Expls. Great Basin of Utah, J. H. Simpson, p. 365, pl. v, fig. 1e. Rev. Non-Marine Foss. Moll., p. 58 or 464, pl. xxxi, fig. 2. Mus. No. 691.

Helix peripheria White.

Rep. Geol. Eastern Uinta Mts., J. W. Powell, p. 130. Rev. Non-Marine Foss. Moll., p. 49 or 455, pl. xxix, figs. 11, 12. Mus. No. 8882.

Helix riparia White.

Rep. Geol. of Eastern Uinta Mts., J. W. Powell, p. 130. Rev. Non-Marine Foss. Moll., p. 49 or 455, pl. xxix, figs. 13, 14. Mus. No. 8881.

Helix ? veterna (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 596, pl. xlii, figs. 8a, b. Rev. Non-Marine Foss. Moll., p. 48 or 454, pl. xxx, figs. 4, 5. Mus. No. 1975.

* Not the figured specimen, but marked as a type by T. A. Conrad.

Vol. VIII, No. 22. Washington, D. C. Sept. 2, 1885.

EOCENE SPECIES—Continued.

Limnæa (Limnophysa) vetusta Meek.

Rep. Expls. Great Basin of Utah, J. H. Simpson, p. 367, pl. v, figs. 3*a, b*. Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 191, pl. xvii, figs. 4, *a, b*. Rev. Non-Marine Foss. Moll., p. 39 or 445, pl. xxix, figs. 22, 23. Mus. No. 693.

Limnæa similis Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 191, pl. xvii, figs. 3, *a*. Rep. Expl. Great Basin of Utah, J. H. Simpson, p. 367, pl. v, fig. 2*a, b*. Rev. Non-Marine Foss. Moll., p. 39 or 445, pl. xxix, figs. 20, 21. Mus. No. 692.

Macrocyclis spatiosa (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 594, pl. xlii, figs. 9*a-c*. Rev. Non-Marine Foss. Moll., p. 46 or 452, pl. xxx, figs. 1-3. Mus. No. 1974.

Meretrix californiana Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. v, p. 320, pl. ii, fig. 4. Mus. No. 1842.

Mesodesma bishopi White.

Rep. Geol. of Eastern Uinta Mts., J. W. Powell, p. 128 (not figured). Mus. No. 12509.

Natica ætītis Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. v, p. 321, pl. ii, fig. 7. Mus. No. 1836.

Phorus exoneratus White.

Rep. Geol. of Eastern Uinta Mts., J. W. Powell, p. 134 (not figured). Mus. No. 12510.

Physa bridgerensis Meek.

Rep. Expls. & Survs. west of 100th Meridian, vol. iv, part i, p. 210, pl. xxi, fig. 2*a*. Mus. No. 8596.

Physa bridgerensis Meek.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 45, pl. xix, figs. 10*a, b*. Rev. Non-Marine Foss. Moll., p. 44 or 450, pl. xxx, figs. 9, 10. Mus. No. 9001.

Physa pleromatis White.

Rep. Geogr. & Geol. Surv. west of 100th Meridian, vol. iv, part i, p. 211, pl. xxi, figs. 1*a, b*. Rev. Non-Marine Foss. Moll., p. 44 or 450, pl. xxx, figs. 6, 7. Mus. No. 8867.

Planorbis æqualis White.

Proc. U. S. Nat. Mus., p. 159. Rev. Non-Marine Foss. Moll., p. 42 or 448, pl. xxix, figs. 8-10. Mus. No. 12486.

Planorbis cirratus White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 44, pl. xix, figs. 5*a-c*. Rev. Non-Marine Foss. Moll., p. 42 or 448, pl. xxix, fig. 7. Mus. No. 9005.

Planorbis spectabilis Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 190, pl. xvii, figs. 13*d-f*. Mus. No. 694.

Planorbis spectabilis Meek.

Rep. Expls. Great Basin of Utah, J. H. Simpson, p. 366, pl. v, figs. 7*a-d*. Rev. Non-Marine Foss. Moll., p. 41 or 447, pl. xxix, figs. 4-6. Mus. No. 695.

Planorbis spectabilis var. **utahensis** Meek.

Rep. Expls. Great Basin of Utah, J. H. Simpson, p. 367, pl. v, figs. 8*a-c*. Rev. Non-Marine Foss. Moll., p. 41 or 447, pl. xxix, figs. 1-3. Mus. No. 697.

EOCENE SPECIES—Continued.

Planorbis spectabilis var. **utahensis** Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 182, pl. xvii, figs. 14a-c. Mus. No. 697.

Planorbis utahensis (Meek) White.

Rep. Expls. & Survs. west of 100th Meridian, vol. iv, part i, p. 209, pl. xxi, fig. 8a. Mus. No. 8599.

Pleurotoma pagoda Heilprin.

Proc. U. S. Nat. Mus., vol. iii, p. 149, pl. —, fig. 1. Mus. No. 1505.

Pleurotoma platysoma Heilprin.

Proc. U. S. Nat. Mus., vol. iii, p. 150, pl. —, fig. 3. Mus. No. 8916.

Pleurotoma venusta Heilprin.

Proc. U. S. Nat. Mus., vol. iii, p. 150, pl. —, fig. 2. Mus. No. 1509.

Pupa arenula White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 46, pl. xix, figs. 8a, b. Rev. Non-Marine Foss. Moll., p. 50 or 456, pl. xxix, fig. 19. Mus. No. 9002.

Pupa atavuncula White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 46, pl. xix, fig. 9a. Rev. Non-Marine Foss. Moll., p. 50 or 456, pl. xxix, fig. 18. Mus. No. 9002.

Pupa (Leucocheila) incolata White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 47, pl. xix, figs. 7a-c. Rev. Non-Marine Foss. Moll., p. 50 or 456, pl. xxix, figs. 15-17. Mus. No. 9004.

Scalaria unilineata Heilprin.

Proc. U. S. Nat. Mus., vol. iii, p. 150, pl. —, fig. 5. Mus. No. 8920.

Succinea (Brachyspira) papillispira White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 45, pl. xix, fig. 4a. Rev. Non-Marine Foss. Moll., p. 51 or 457, pl. xxix, fig. 26. Mus. No. 9008.

Terebra plicifera Heilprin.

Proc. U. S. Nat. Mus., vol. iii, p. 151, pl. —, fig. 8. Mus. No. 8919.

Turritella uvasana Conrad.

Rep. Expls. & Survs. Mississippi River to the Pacific Ocean, vol. v, p. 321, pl. ii, fig. 12. Mus. No. 1870.

Unio clinopisthus White.

Rev. Non-Marine Foss. Moll., p. 28 or 434, pl. xxviii, figs. 1, 2. Mus. No. 8359.

Unio meekii White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 43, pl. xix, fig. 1a. Mus. No. 7833.

Unio shoshonensis White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 41, pl. xix, figs. 2a, b. Rev. Non-Marine Foss. Moll., p. 29 or 435, pl. xxviii, fig. 3. Mus. Nos. 8098, 8099.

Unio washakiensis (Meek) White.

12th Ann. Rep. U. S. Geol. & Geogr. Surv. Terr., p. 42, pl. xix, figs. 2a, b. Rev. Non-Marine Foss. Moll., p. 29 or 435, pl. xxviii, figs. 6, 7. Mus. Nos. 9006, 9007.

Unio washakiensis (Meek) White.

Rev. Non-Marine Foss. Moll., p. 29 or 435, pl. xxviii, fig. 8. Mus. No. 8876.

Viviparus paludinæformis (Hall) White.

Rev. Non-Marine Foss. Moll., p. 62 or 468, pl. xxx, figs. 11, 12. Mus. No. 8253.

Viviparus wyomingensis (Meek) White.

Rev. Non-Marine Foss. Moll., p. 62 or 468, pl. xxx, figs. 13, 14. Mus. No. 8295.

MIOCENE SPECIES.

- Ancylus undulatus* Meek.
Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 186, pl. xvii, figs. 12, 12a. Rev.
Non-Marine Foss. Moll., p. 45 or 451, pl. xxxii, fig. 10. Mus. No. 12532.
- Anomia subcostata* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. v, p. 325,
pl. v, fig. 34. Mus. No. 1865.
- Anomia subcostata* Conrad.
Rep. U. S. & Mex. Bound. Surv., vol. i, part ii, p. 161, pl. xix, figs. 1a, b. Mus. No.
9830.
- Arca devincta* Conrad.
U. S. Expl. Exp., vol. x, Geology, p. 726, pl. xviii, figs. 10, a. Mus. No. 3499.
- Arca microdonta* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. v, pp. 323,
324, pl. iii, fig. 29. Mus. No. 1844.
- Arca obispoana* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p.
192, pl. v, fig. 1. Mus. No. 13330.
- Arcopagia unda* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 192,
pl. iv, figs. 3, 4. Mus. No. 13328.
- Astrodapsis antiselli* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 196,
pl. x, figs. 1, 2. Mus. No. 13337.
- Axinea barbarentis* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p.
194, pl. vi, fig. 3. Mus. No. 13358.
- Balanus estrellanus* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p.
195, pl. viii, fig. 1. Mus. No. 13342.
- Balanus estrellanus* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p.
195 (not the figured specimen). Mus. No. 13316.
- Bulla petrosa* Conrad.
U. S. Expl. Exp., vol. x, Geology, p. 727, pl. xix, fig. 8. Mus. No. 3607.
- Cardita subtenta* Conrad.
U. S. Expl. Exp., vol. x, Geology, p. 726, pl. xviii, figs. 12, a. Mus. No. 3502.
- Cardium modestum* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi to the Pacific, vol. v, p. 322, pl. iii, fig.
15. Mus. No. 1864.
- Crassatella collina* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p.
193, pl. vi, figs. 1, 2. Mus. No. 13339.
- Crepidula prærupta* Conrad.
U. S. Expl. Exp., vol. x, Geology, p. 727, pl. xix, figs. 9, a, 10a, b. Mus. Nos. 3496, 3564.
- Cyclas estrellana* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii,
p. 192, pl. vi, fig. 6. Mus. No. 13351.
- Cyclas estrellana* Conrad.
Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p.
192 (not the figured specimen). Mus. No. 13314.

MIOCENE SPECIES—Continued.

Cyclas permacra Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 192, pl. vii, fig. 4. Mus. No. 13340.

Dolium petrosum Conrad.

U. S. Expl. Exp., vol. x, Geology, p. 727, pl. xix, figs. 3a, b, 4a, b, 5a, b. Mus. No. 3536.

Donax? protexta Conrad.

U. S. Expl. Exp., vol. x, Geology, pp. 723, 724, pl. xvii, fig. 9. Mus. No. 3613.

Dosinia longula Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 193, pl. vii, fig. 2. Mus. No. 13343.

Dosinia montana Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 194, pl. vi, fig. 4. Mus. No. 13357.

Dosinia subobliqua Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 194, pl. vi, fig. 5. Mus. No. 13356.

Fusus corpulentus Conrad.

U. S. Expl. Exp., vol. x, Geology, p. 728, pl. xx, fig. 4. Mus. No. 3551.

Galerites oregonensis Dana.

U. S. Expl. Exp., vol. x, Geology, p. 729, pl. xxi, figs. 5, 6, a. Mus. No. 3498.

Glycimeris estrellanus Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 194, pl. vii, fig. 5. Mus. No. 13320.

Gratelupia? mactropsis Conrad.

Rep. Expls. & Survs. R. R. R. the Mississippi to the Pacific, vol. v, p. 328, pl. vi, fig. 54. Mus. No. 1843.

Helix leidyi (H. & M.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 604, pl. xlv, figs. 7a, b. Rev. Non-Marine Foss. Moll., p. 49 or 455, pl. xxxii, figs. 32, 33. Mus. No. 2102.

Helix leidyi (H. & M.) White.

Rep. Expls. & Survs. west of 100th Meridian, vol. iv, part i, p. 211, pl. xxi, figs. 3a-c. Mus. No. 8590.

Hinnites crassa Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 190, pl. ii, figs. 1, 2. Mus. No. 13336.

Latia dallii White.

Rev. Non-Marine Foss. Moll., p. 45 or 451, pl. xxxii, figs. 37-40. Mus. No. 11547.

Limnæa (Polyrhytis) kingii Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 192, figs. 6, 7, on p. 192. Rev. Non-Marine Foss. Moll., p. 40 or 446, pl. xxxii, figs. 30, 31. Mus. No. 8097.

Limnæa shumardi (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 599, pl. xlv, figs. 6a, b. Rev. Non-Marine Foss. Moll., p. 40 or 446, pl. xxxii, figs. 28, 29. Mus. No. 2119.

Lutraria transmontana Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 194, pl. v, fig. 6. Mus. No. 13322.

Lutraria traskei Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. v, p. 324, pl. iii, fig. 23. Mus. No. 1848.

MIOCENE SPECIES—Continued.

Mactra ? gaviotensis Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 194, pl. vii, fig. 4. Mus. No. 13310.

Modiola contracta Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. v, p. 325, pl. v, fig. 35. Mus. No. 1853.

Mya abrupta Conrad.

U. S. Expl. Exp., vol. x, Geology, p. 723, pl. xvii, figs. 5, a. Mus. No. 3608.

Mytilus inezensis Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 194, pl. viii, figs. 2, 3? Mus. No. 13319.

Natica inezana Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 195, pl. x, figs. 5, 6. Mus. No. 12359.

Natica inezana Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to Pacific Ocean, vol. vii, p. 195, pl. x, figs. 5, 6. Mus. No. 12359.

Nautilus angustatus Conrad.

U. S. Expl. Exp., vol. x, Geology, p. 728, pl. xx, fig. 5. Mus. No. 3610.

Nucula impressa Conrad.

U. S. Expl. Exp., vol. x, Geology, p. 726, pl. xviii, figs. 7c-e. Mus. Nos. 3490, 3491.

Ostrea contracta Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 160, pl. xviii, figs. a-d. Mus. No. 9904.

Ostrea pauzana Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 193, pl. ii, fig. 4. Mus. No. 13313.

Ostrea subjecta Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to Pacific Ocean, vol. vii, p. 193, pl. ii, fig. 3. Mus. No. 13338.

Ostrea vespertina Conrad.

U. S. & Mex. Bound. Surv., vol. i, part ii, p. 160, pl. xvii, figs. 1a-d. Rev. Foss. Ostreida N. A., p. 315, pl. lxxi, figs. 2-5. Mus. No. 9832.

Pachydesma inezana Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 193, pl. v, figs. 2, 4. Mus. No. 13315.

Pallium estrellanum Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 191, (not the figured specimens). Mus. No. 13317.

Pecten discus Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 190, pl. iii, fig. 1. Mus. No. 13335.

Pecten hermanii Conrad.

Proc. Acad. Nat. Sci. Philad., vol. vii, p. 267. Mus. No. 13309.

Pecten magnolia Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 191 (not the figured specimen). Mus. No. 13311.

Pecten meekii Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 190, pl. i, fig. 1. Mus. No. 13333.

Pecten propatulus Conrad.

U. S. Expl. Exp., vol. x, Geology, p. 726, pl. xviii, figs. 13, a. Mus. No. 3504.

MIOCENE SPECIES—Continued.

Pectunculus patulus Conrad.

U. S. Expl. Exp., vol. x, geology, p. 726, pl. xviii, figs. 8, *a*. Mus. No. 3605.

Perna montana Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 195 (not figured). Mus. No. 13329.

Physa secalina (E. & S.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 604, pl. xlv, figs. 4*a*, *b*. Rev. Non-Marine Foss. Moll., p. 44 or 450, pl. xxxii, figs. 35, 36. Mus. No. 2140.

Planorbis nebrascensis (E. & S.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 600, pl. xlv, figs. 2*a*, *b*. Rev. Non-Marine Foss. Moll., p. 42 or 446, pl. xxxii, figs. 22, 23. Mus. No. 2170.

Planorbis vetustus (M. & H.) Meek.

Rep. U. S. Geol. & Geogr. Surv. Terr., 4to, vol. ix, p. 601, pl. xlv, figs. 1*a-c*. Rev. Non-Marine Foss. Moll., p. 42 or 446, pl. xxxii, figs. 16-18. Mus. No. 2171.

Scutella striatula.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, pl. ix, figs. 1*a*, *b*. Mus. No. 13334.

Sigaretus scopulosus Conrad.

U. S. Expl. Exp., vol. x, geology, p. 727, pl. xix, figs. 6, *a*. Mus. No. 3553.

Solemya ventricosa Conrad.

U. S. Expl. Exp., vol. x, geology, p. 723, pl. xvii, figs. 7, 8. Mus. Nos. 3567, 3486.

Sphaerium idahoense Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 183, pl. xvi, figs. 1, *a*. Mus. No. 12520.

Sphaerium rugosum Meek.

Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 182, pl. xvi, figs. 2, *a*, *b*. Mus. No. 12521.

Tapes inezensis Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 192, pl. vii, fig. 1. Mus. No. 13341.

Tapes montana Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 192, pl. v, figs. 3-5. Mus. No. 13321.

Tellina arctata Conrad.

U. S. Expl. Exp., vol. x, geology, p. 725, pl. xviii, figs. 3, *a*. Mus. No. 3849.

Tellina congesta Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. v, p. 323, pl. iii, figs. 21, *a*. Mus. No. 1849.

Terebratula nitens Conrad.

U. S. Expl. Exp., vol. x, geology, p. 726, pl. xix, figs. 1, *a*. Mus. No. 3487.

Teredo substriata Conrad.

U. S. Expl. Exp., vol. x, geology, p. 728, pl. xx, fig. 7. Mus. No. 3481.

Trochita costellata Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 195, pl. vii, fig. 3. Mus. No. 13310.

Turritella biseriata ? Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi to the Pacific, vol. v, p. 320, (not figured nor described). Mus. No. 1866.

Turritella inezana Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 195 (not the figured specimen). Mus. No. 13344.

MIOCENE SPECIES—Continued.

Turritella variata Conrad.

Rep. Expls. & Survs. R. R. R. from Mississippi River to the Pacific Ocean, vol. vii, p. 195, pl. viii, fig. 5. Mus. No. 13346.

Venus bisecta Conrad.

U. S. Expl. Exp., vol. x, Geology, p. 724, pl. xvii, figs. 10, *a*. Mus. No. 3518.

Venus brevilineata Conrad.

U. S. Expl. Exp., vol. x, Geology, p. 724, pl. xvii, fig. 13. Mus. No. 3606.

Venus lamellifera Conrad.

U. S. Expl., Exp. vol. x, Geology, p. 724, pl. xvii, fig. 12*a*. Mus. No. 3611.

Venus pajaroana Conrad.

Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol. vii, p. 192, pl. iv, figs. 1, 2. Mus. No. 13318.

POST-TERTIARY AND TERTIARY SPECIES OF DOUBTFUL AGE.

Ancylus undulatus Meek.

Tertiary. Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 186, pl. xvii, fig. 12*b*.
Mus. No. 12532.

Anomia subcostata Conrad.

Tertiary. U. S. & Mex. Bound. Surv., vol. i, part ii, p. 161, pl. xix, figs. 1*a*, *b*. Mus.
No. 9830.

Carinifex (Vorticifex) binneyi Meek.

Tertiary. Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 187, pl. xvii, figs. 11, *a*.
Mus. No. 12542.

Carinifex (Vorticifex) tryoni Meek.

Tertiary. Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 188, pl. xvii, figs. 10,
a, *b*. Mus. No. 12544.

Carinifex (Vorticifex) tryoni var. *concava* Meek.

Tertiary. Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 189, pl. xvii, fig. 10*c*.
Mus. No. 13416.

Cassidula alveata Conrad.

Tertiary. Rep. U. S. & Mex. Bound. Surv., vol. i, part ii, p. 163, pl. xix, figs. 9*a*, *b*.
Mus. No. 9901.

Corbula nasuta Conrad.

Tertiary. Rep. U. S. & Mex. Bound. Surv., vol. i, part ii, p. 161, pl. xix, fig. 4. Mus.
No. 9899.

Crepidula princeps Conrad.

Post-tertiary. Rep. Expls. & Survs. R. R. R. from the Mississippi to the Pacific,
vol. v, p. 326, pl. vi, figs. 52, *a*. Mus. No. 1839.

Fissurella crenulata (Sow.) Conrad.

Post-tertiary. Rep. Expls. & Survs. R. R. R. from the Mississippi to the Pacific,
vol. v, p. 326, pl. v, fig. 44. Mus. No. 1851.

Melania ? sculptilis Meek.

Tertiary. Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 195, pl. xvii, fig. 8.
Mus. No. 12541.

Melania ? subsulptilis Meek.

Tertiary. Rep. Geol. Expl. 40th Parallel, vol. iv, part i, p. 196, pl. xvii, fig. 9.
Mus. No. 12551.

Natica limula Conrad.

Tertiary. Rep. U. S. & Mex. Bound. Surv., vol. i, part ii, p. 162, pl. xix, fig. 7.
Mus. No. 9898.

Ostrea veleniana Conrad.

Tertiary. Rep. U. S. & Mex. Bound. Surv., vol. i, part ii, p. 160, pl. xvii, figs. 2a,
b. Rev. Foss. Ostreidæ N. A., p. 314, pl. lxx, fig. 1. Mus. No. 9902.

Pecten altiplicatus Conrad.

Tertiary. Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean,
vol. vii, p. 191, pl. iii, fig. 2. Mus. No. 13350.

Pecten deserti Conrad.

Tertiary. Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean, vol.
v, p. 325, pl. v, fig. 41. Mus. No. 8398.

Penitella spelæa Conrad.

Post-pliocene. Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean,
vol. v, p. 326, pl. v, figs. 43, a, b. Mus. No. 1868.

Planorbis ammon Gould.

Post-tertiary. Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean,
vol. v, p. 331, pl. xi, figs. 14-16. Mus. No. 13392.

Potamis pullatus Gould.

Post-tertiary. Rep. Expls. & Survs. R. R. R. from the Mississippi to the Pacific,
vol. v, p. 333, pl. xi, fig. 23. Mus. No. 13393.

Saxicava abrupta Conrad.

Post-pliocene. Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean,
vol. v, p. 324 (not figured). Mus. No. 1869.

Schizothœrus nuttalli Conrad.

Post-pliocene. Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific Ocean,
vol. v, p. 324, pl. iv, figs. 33, a. Mus. No. 1845.

Scutella interlineata Blake.

Post-pliocene. Rep. Expls. & Survs. R. R. R. Mississippi River to the Pacific
Ocean, vol. v, [pl. iv, fig. 30] (not named nor described). Mus. No. 1846.

Tapes diversum (Sow.) Conrad.

Post-tertiary. Rep. Expls. & Survs. R. R. R. from the Mississippi to the Pacific, vol.
v, p. 324, pl. iv, figs. 31, b. Mus. No. 1847.

Turritella sp. Conrad.

Tertiary. Rep. U. S. & Mex. Bound. Surv., vol. i, part ii, p. 163, pl. xix, fig. 8. Mus.
No. 9903.

Volotalithes sayana Conrad.

Tertiary. Rep. U. S. & Mex. Bound. Surv., vol. i, part ii, p. 162, pl. xix, fig. 6.
Mus. No. 9897.